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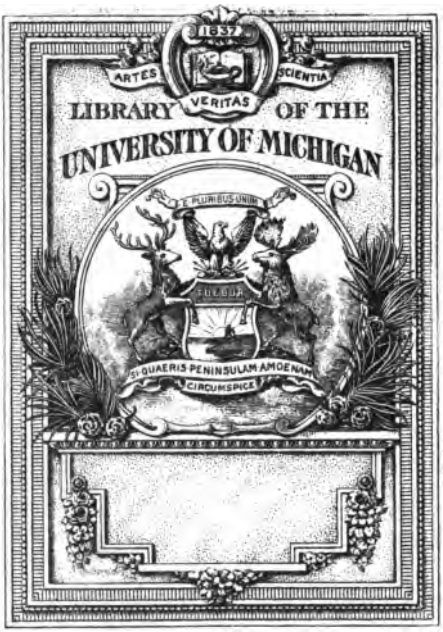

THE GIFT OF
Princeton University

LD
4587

CATALOGUE

OF

PRINCETON UNIVERSITY

ONE HUNDRED AND FIFTY-NINTH YEAR

1905-1906

PRINCETON, NEW JERSEY
PUBLISHED BY THE UNIVERSITY
1905

Press of
THE JOHN C. WINSTON COMPANY
1006-1016 Arch Street
Philadelphia

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OFFICE HOURS

THE PRESIDENT OF THE UNIVERSITY.—Prospect, Mondays, Tuesdays, and Wednesdays, from 2 to 4 P. M.

THE TREASURER OF THE UNIVERSITY.—University Offices, 9 A. M. to 1 P. M., 2.30 to 4 P. M.; Wednesdays and Saturdays, 9 A. M. to 12 M.; July 1 to September 1, 9 A. M. to 12 M.

THE REGISTRAR OF THE UNIVERSITY.—University Offices, 9 A. M. to 1 P. M., 2.30 to 4 P. M.; Wednesdays and Saturdays, 9 A. M. to 12 M.

THE SECRETARY OF THE UNIVERSITY.—Chancellor Green Library, 10 A. M. to 12 M., daily.

THE CURATOR OF GROUNDS AND BUILDINGS.—University Offices, 9 A. M. to 1 P. M., 2.30 to 4 P. M.; Wednesdays and Saturdays, 9 A. M. to 12 M.; July 1 to September 1, 9 A. M. to 12 M.

THE DEAN OF THE GRADUATE SCHOOL.—Chancellor Green Library, 10 to 11 A. M., Mondays and Thursdays.

THE DEAN OF THE FACULTY.—Dean's House, Mondays, Tuesdays, Thursdays, and Fridays, 2 to 4 P. M.; Wednesdays and Saturdays, 2 to 3 P. M.

THE COMMITTEE ON ENTRANCE, Professor Loomis, Secretary,—302 Nassau Street, 7 to 8 P. M., daily, during June and September.

THE COMMITTEE ON ATTENDANCE meets in the Faculty Room, University Offices, on Thursday, from 1.30 to 2.30 P. M. Requests and excuses for absence should be presented by the student in person.

THE COMMITTEE ON EXAMINATIONS AND STANDING, Professor Vreeland, Secretary,—The Chancellor Green Library, 12 M. to 1 P. M., Mondays and Wednesdays.

THE COMMITTEE ON SPECIAL STUDENTS, Mr. Priest, Secretary,—5 South East David Brown Hall, 2.15 to 3 P. M., Mondays, Wednesdays, and Fridays.

THE COMMITTEE ON OUT-DOOR SPORTS, Professor McClenahan, Secretary,—The Physical Laboratory, 12 M. to 1 P. M., Mondays, Tuesdays, and Wednesdays.

THE COMMITTEE ON NON-ATHLETIC ORGANIZATIONS, Professor Axson, Secretary,—10 Nassau Street, 2 to 3 P. M., Thursdays.

THE UNIVERSITY FACULTY meets on the first Thursday of the University year, immediately after the opening exercises of the year, and thereafter on the first and third Mondays of each month, at 5 o'clock in the afternoon. The ACADEMIC FACULTY meets on call on the second Monday of each month, at 5 o'clock in the afternoon; the FACULTY OF THE SCHOOL OF SCIENCE, on the fourth Monday of each month, at the same hour. For calendar of Faculty meetings see page 12.

For Catalogues of Princeton University apply to Mr. C. W. MCALPIN, Secretary of the University, Princeton, New Jersey.

For information concerning Entrance and Courses of Instruction apply to Mr. H. N. VAN DYKE, Registrar of the University, Princeton, New Jersey.

For information concerning the Graduate School apply to PROFESSOR A. F. WEST, Dean of the Graduate School, Princeton, New Jersey.

CALENDAR

1905

Sept. 18–23. Examinations for removal of first and second term conditions.

Sept. 18–20. Examinations for admission, held in Princeton only.

Sept. 20. First term begins.

Sept. 21. Formal opening exercises at 3 P. M.

Sept. 27. Preliminary examination of candidates for the Doctor's degree.

Oct. 21. Meeting of the Board of Trustees.

Oct. 22. Commemoration Day.

Nov. 29, 2 P. M.–Dec. 4, 10 A. M. Thanksgiving recess.

Nov. 30. Thanksgiving Day.

Dec. 11–16. Examinations for removal of entrance conditions.

Dec. 14. Meeting of the Board of Trustees.

Dec. 20, 2 P. M. Christmas vacation begins.

1906

Jan. 4, 10 A. M. Christmas vacation ends.

Feb. 7. First term examinations end.

Feb. 8. Second term begins.

Feb. 22. Washington's Birthday.

March 8. Meeting of the Board of Trustees.

March 28, 12 M. Meeting of Faculty Committee on Course of Study.

April 11. Examinations for removal of first term conditions end.

April 11, 2 P. M.–April 17, 10 A. M. Spring recess.

June 2.	End of Senior final examinations.
June 8.	End of examinations of the three lower classes.
June 9.	Junior Orator and Maclean Prize contests.
June 10.	Baccalaureate Address by the President of the University in Alexander Hall.
June 11.	Class Day—Commencement meeting of the Board of Trustees.
June 12.	Election of an Alumni Trustee—Annual meetings of the Literary Societies and Alumni Association—Lynde Prize Debate.
June 13.	159th Annual Commencement.
June 14–16.	Examinations for admission, held simultaneously in Princeton and elsewhere.
Sept. 17–22.	Examinations for removal of first and second term conditions.
Sept. 17–19.	Examinations for admission, held in Princeton only.
Sept. 19.	First term begins.
Sept. 20.	Formal opening exercises at 3 P. M.
Sept. 26.	Preliminary examination of candidates for the Doctor's degree.
Oct. 20.	Meeting of the Board of Trustees.
Oct. 22.	Commemoration Day.
Nov. 28, 2 P. M.–Dec. 3, 10 A. M.	Thanksgiving recess.
Nov. 29.	Thanksgiving Day.
Dec. 10–15.	Examinations for removal of entrance conditions.
Dec. 13.	Meeting of the Board of Trustees.
Dec. 19, 2 P. M.	Christmas vacation begins.

1907

Jan. 3, 10 A. M.	Christmas vacation ends.
Feb. 6.	First term examinations end.

Feb. 7.	Second term begins.
Feb. 22.	Washington's Birthday.
March 14.	Meeting of the Board of Trustees.
March 27.	Meeting of Faculty Committee on Course of Study.
March 27.	Examinations for removal of first term conditions end.
March 27, 2 P. M.–April 2, 10 A. M.	Spring recess.
June 1.	End of Senior final examinations.
June 7.	End of examinations of the three lower classes.
June 8.	Junior Orator and Maclean Prize contests.
June 9.	Baccalaureate Address by the President of the University in Alexander Hall.
June 10.	Class Day—Commencement meeting of the Board of Trustees.
June 11.	Election of an Alumni Trustee—Annual meetings of the Literary Societies and Alumni Association—Lynde Prize Debate.
June 12.	160th Annual Commencement.

FACULTY MEETINGS, 1905–1906

All meetings but the first at 5 P. M.

UNIVERSITY FACULTY: September 21, October 2, 16, November 6, 20, December 4, 18, January 15, February 5, 19, March 5, 19, April 2, May 7, 21, June 4.

ACADEMIC FACULTY: October 9, November 13, December 11, January 8, February 12, March 12, April 9, May 14, June 11.

SCHOOL OF SCIENCE FACULTY: September 25, October 23, November 27, January 22, February 26, March 26, April 23, May 28.

UNIVERSITY CALENDAR

JULY, 1905

Su	M	Tu	W	Th	F	S
..	..	..	..	..	..	*1*
2	*3*	*4*	*5*	*6*	*7*	*8*
9	*10*	*11*	*12*	*13*	*14*	*15*
16	*17*	*18*	*19*	*20*	*21*	*22*
23	*24*	*25*	*26*	*27*	*28*	*29*
30	*31*	..	..	..	..	..
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AUGUST, 1905

Su	M	Tu	W	Th	F	S
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6	*7*	*8*	*9*	*10*	*11*	*12*
13	*14*	*15*	*16*	*17*	*18*	*19*
20	*21*	*22*	*23*	*24*	*25*	*26*
27	*28*	*29*	*30*	*31*	..	..
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SEPTEMBER, 1905

Su	M	T	W	Th	F	S
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10	*11*	*12*	*13*	*14*	*15*	*16*
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OCTOBER, 1905

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NOVEMBER, 1905

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DECEMBER, 1905

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24	*25*	*26*	*27*	*28*	*29*	*30*
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JANUARY, 1906

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FEBRUARY, 1906

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MARCH, 1906

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APRIL, 1906

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MAY, 1906

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JUNE, 1906

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JULY, 1906

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AUGUST, 1906

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SEPTEMBER, 1906

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OCTOBER, 1906

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NOVEMBER, 1906

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DECEMBER, 1906

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JANUARY, 1907

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FEBRUARY, 1907

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MARCH, 1907

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APRIL, 1907

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MAY, 1907

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JUNE, 1907

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16	17	18	19	*20*	*21*	*22*
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30	..	..	..	..	..	..

Days upon which the University is not in session are *italicized.*

PART I

OFFICERS OF THE UNIVERSITY

TRUSTEES OF THE UNIVERSITY

THE GOVERNOR OF THE STATE OF NEW JERSEY, *ex-officio*, PRESIDENT OF THE BOARD OF TRUSTEES.

WOODROW WILSON, Ph.D., Litt.D., LL.D., PRESIDENT OF THE UNIVERSITY and, in the absence of the Governor, President of the Board.

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CYRUS H. McCORMICK, A.M.....Chicago, Ill.
JOHN DIXON, D.D.....Trenton, N. J.
MELANCTHON W. JACOBUS, D.D.....Hartford, Conn.
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ARCHIBALD D. RUSSELL, A.M.....Princeton, N. J.
JOHN DE WITT, D.D., LL.D.....Princeton, N. J.
ROBERT GARRETT, B.S.....Baltimore Co., Md.

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(Term expires June, 1906.)

HON. NATHANIEL EWING, A.M..... ....Uniontown, Pa.
(Term expires June, 1907.)

DAVID B. JONES, A.M.....Chicago, Ill.
(Term expires June, 1908.)

HON. JOHN L. CADWALADER, LL.D. ....New York City.
(Term expires June, 1909.)

JOHN D. DAVIS, A.M., LL.B.....St. Louis, Mo.
(Term expires June, 1910.)

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ELIJAH R. CRAVEN, D.D., LL.D.

Treasurer
HENRY G. DUFFIELD, A.B.

Secretary
CHARLES W. McALPIN, A.M.

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Committee on Finance

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PART II

HISTORY AND GOVERNMENT OF THE UNIVERSITY

HISTORY AND GOVERNMENT OF THE UNIVERSITY

At the beginning of the eighteenth century there were but three institutions of higher learning in the colonies: Harvard and Yale in New England, and the College of William and Mary in Virginia.

The coming of William Tennent, Sr., to America in 1716, exerted a wide influence upon religious and educational affairs. Tennent was born in Ireland in 1673 and received a liberal education at the University of Edinburgh, from which he was graduated in 1695. A few years later he was ordained a priest in the Church of Ireland. Becoming dissatisfied with the terms imposed upon the Episcopal clergy he was deprived of his living, and so came to America. He was admitted to the Synod of Philadelphia in 1718, and labored at East Chester and Bedford in New York until 1721, when he removed to the county of Bucks in Pennsylvania, and again, in 1726, to a point afterwards called the Forks of Neshaminy. Here he established a school which later became well known as the Log College. In this school were educated many whose names are intimately associated with the founding and early history of Princeton University. Among them may be noted Gilbert Tennent, John Blair, Samuel Blair, Samuel Finley, and Charles Beatty, whose lives bear the imprint of the zeal and teaching of the elder Tennent.

For a brief season the Log College flourished, but its work was over with the death of its founder in 1746. The growing need for an educational institution organized on a plan far larger than the school of Tennent became apparent. The success of the graduates of the Log College, who showed themselves equal to the positions usually occupied by graduates of the New England colleges or of the Scottish universities, proved to the people of the middle colonies that they need not be dependent upon distant seminaries of learning for an educated ministry. The first movement toward the permanent establishment of a college was begun in 1739 by the Synod of Philadelphia, which nominated a committee of four, "two of which, if they can be prevailed upon, to be sent home to Europe to prosecute this affair with proper directions." This committee was composed of Messrs. Pemberton, Dickinson, Cross and Anderson; two of whom, Ebenezer Pemberton and Jonathan Dickinson, were natives of New England. The former was graduated from Harvard and the latter from Yale. Dr. Anderson was from Scotland, and Cross was from Ireland. The committee entered at once upon its labors, but the times were not propitious. The outbreak of the war between England and Spain rendered the voyage abroad one of considerable hazard and danger; the calling of the Synod together for further consideration of the plan was abandoned and "the whole affair laid aside for a time." This was the last action taken by the united Church upon the subject.

A conflict which had been growing within the Synod finally led to its division in 1742. The separation grew out of the activity and the conflicting opinions of two factions as to the value of religious revivals, and the learning requisite for admission to the ministry. One was the party of the Log College, whose pupils were the leading men in the Presbytery of New Brunswick; the other had its strength in

the more conservative Presbytery of Philadelphia. Between these two parties stood the Presbytery of New York, led by Dickinson and Pemberton. Sincere and earnest efforts were made by the latter to effect a reconciliation, but to no purpose, and, inasmuch as the two parties could not be brought to an amicable understanding, the Presbytery of New York deemed it their duty to withdraw and organize another and separate synod. This was afterward duly accomplished by the union of the Presbyteries of New York, New Brunswick and New Castle.

After the schism, Dickinson, Pierson, Pemberton, Burr, and others, of the newly-formed Synod of New York, not satisfied with the limited course of instruction given at the Log College, turned their thoughts toward the establishment of an institution, in which ample provision should be made for a wide and liberal education. Convinced of the futility of awaiting united synodical action, and of the evils which would arise from the supervision of a church judicatory, they determined upon independent though concerted action. They sought a charter for the founding of a college in New Jersey, without assistance from either synod, which they "probably neither sought nor desired." The charter was granted and on the 22d of October, 1746, passed the great seal of the Province, attested by John Hamilton, President of his Majesty's Council, then acting Governor of New Jersey. A memorandum to this effect appears among the records of charters and commissions in the office of the Secretary of State, but the charter itself is not given. Its substance, however, is revealed in an advertisement which appeared in the *Pennsylvania Gazette* of August 13, 1747, which is as follows:

Philadelphia, August 13, 1746–7.

These are to give Notice to all concerned, That by His Majesty's Royal Charter for erecting a college in New-Jersey, for the instructing of youth in the learned languages, and in the liberal arts and

sciences, bearing date October 22d, 1746, Messrs. William Smith, Peter Vanbrugh Livingston, William Peartree Smith, gent. and Messrs. Jonathan Dickenson, John Pierson, Ebenezer Pemberton, and Aaron Burr, ministers of the gospel, are appointed trustees of the said college; with full power to any four or more of them, to chuse five more trustees to the exercise of equal power and authority in the said college, with themselves. By virtue of which power, the said trustees, nominated in the charter, have chosen the Rev. Messrs. Gilbert Tennant, William Tennant, Samuel Blair, Richard Treat, and Samuel Finley, as trustees of the said college of New-Jersey:

Which trustees are by the said charter, constituted a body corporate and politick, both in fact and name, with full power to act as such to all intents and Purposes, and rendred capable of a perpetual succession to continue forever. By which royal charter, there is authority given to the major part of any seven or more of the said trustees, and their successors conveen'd for that purpose, to purchase, receive, and dispose of any possessions, tenements, goods and chattels, gifts, legacies, donations and bequests, rents, profits and annuities of any kind whatsoever, and to build any house or houses, as they shall think proper, for the use of the said college. And also by the said charter is given to the major part of any seven or more of the said trustees and their successors, full power to chuse, and at pleasure to displace, a president, tutors, professors, treasurer, clerk, steward, and usher, with any other ministers, and officers as are usual in any of the universities or colleges in the realm of Great Britain.

And also by the said charter is given to the major part of any seven of the said trustees and their successors, full power to make any laws, acts and ordinances, for the government of the said college, as are not repugnant to the laws and Statutes of the realm of Great Britain, nor to the Laws of the Province of New-Jersey; provided, that no person be debarred any of the privileges of the said college on account of any speculative principles of religion; but those of every religious profession, having equal privilege and advantage of education in the said college. And also by the said charter, power is given to the major part of any seven of the said trustees and their successors, by their president, or any other appointed by them, to give any such degrees as are given in any of the universities or col-

leges in the realm of Great Britain, to any such as they shall judge qualified for such degrees; and power to have and use a common seal to seal and confirm diplomas or certificates of such degrees, or for any other use which they shall think proper.

And these may further notify all concern'd, that the said trustees have chosen the Rev. Mr. Jonathan Dickinson president, whose superior Abilities are well known; and Mr. Caleb Smith tutor of the said college; and that the college is now actually opened, to be kept at Elizabeth-Town, till a building can be erected in a more central place of the said province for the residence of the Students; that all who are qualified for it, may be immediately admitted to an academick education, and to such class and station in the college, as they are found upon examination to deserve; and that the charge of the college to each student, will be Four Pounds a year New-Jersey money, at Eight Shillings per ounce, and no more.

In this memorandum of the first charter, it will be seen that the remaining five Trustees, elected by the first named seven, were all, save Richard Treat, leading men of the Log College. With the death of its venerable founder, William Tennent, Sr., which occurred May 6, 1746, the work of the Log College was over and its forces represented by the Tennents, Samuel Blair, and Samuel Finley, were absorbed by the younger but more liberal institution. In casting in their lot with the Trustees of the College of New Jersey, the supporters of the Log College were probably influenced by a knowledge of the narrow scope and aims of the little academy they had fostered and its utter inability to meet the then existing requirements for an institution of the higher learning.

A second charter was granted two years later by Jonathan Belcher, royal Governor of New Jersey, and passed the seal of the Province on the 14th of September, 1748. So far as appears, the scope and educational design of the institution, the powers of the Trustees, and the degrees to be granted, were precisely the same in both instruments. The text of the second charter is as follows:

CHARTER OF THE TRUSTEES OF THE COLLEGE OF NEW JERSEY

George the Second by the Grace of God of Great Britain France and Ireland King Defender of the Faith etc. TO ALL TO WHOM these presents shall come GREETING. WHEREAS sundry of our loving Subjects, well disposed and publick spirited Persons, have lately by their humble petition, presented to our trusty and well beloved Jonathan Belcher Esquire Governor and Commander in Chief of our province of New Jersey in America, represented the great Necessity of comeing into some Method for encouraging and promoting a learned Education of our Youth in New Jersey, and have expressed their earnest Desire that a College may be erected in our said province of New Jersey in America, for the Benefit of the Inhabitants of the said Province and others, wherein Youth may be instructed in the learned Languages, and in the liberal Arts and Sciences. AND WHEREAS by the fundamental Concessions made at the first Settlement of New Jersey by the Lord Berkeley and Sir George Carteret then proprietors thereof, and granted under their Hands and the seal of the Said Province, bearing Date the Tenth Day of February in the Year of our Lord one thousand six hundred and Sixty four, it was, among other things conceded and agreed that "no Freeman within the said Province of New Jersey should at any time be molested, punished, disquieted, or called in Question for any difference in Opinion or Practice in Matters of religious Government, who do not actually disturb the civil peace of the said province, but that all and every such Person or Persons might from time to time and at all times thereafter freely and fully have and enjoy his and their judgments and Consciences, in Matters of Religion throughout the said Province they behaveing themselves peaceable and quietly and not using this Liberty to Licentiousness, nor to the civil Injury or outward disturbance of others." As by the said Concessions on Record in the Secretary's Office of New Jersey at Perth Amboy in Lib. 3 Folio 66 &c, may appear. WHEREFORE, and for that the said Petitioners have also expressed their earnest Desire that those of every religious Denomination may have free and equal Liberty and Advantages of Education in the said College, any different Sentiments in Religion notwithstanding: WE being, willing to grant the

reasonable Request and Prayers of all our loving Subjects and to promote a liberal and learned Education among them. KNOW YE THEREFORE THAT WE, considering the Premises, and being willing for the future that the best Means of Education be established in our said Province of New Jersey for the Benefit and Advantage of the Inhabitants of our said Province and others; DO, of our special Grace certain Knowledge and mere Motion, by these Presents will, ordain, grant and constitute, that there be a College erected in our said Province of New Jersey, for the Education of Youth in the learned Languages and in the liberal Arts and Sciences, and that the Trustees of the Said College and their Successors for ever may and shall be one Body Corporate and politick in Deed Action and Name, and Shall be called and named, and distinguished by the Name of THE TRUSTEES OF THE COLLEGE OF NEW JERSEY. AND further, wee have willed given granted constituted and appointed, And this by our present CHARTER of our special Grace, certain Knowledge and mere Motion, WE DO, for us our Heirs and Successors, will, give, grant, constitute and ordain that there shall in the said College from henceforth for ever be a Body politick, consisting of Trustees of the said College of New Jersey. AND, for the more full and perfect Erection of the said Corporation and Body Politick consisting of Trustees of the College of New Jersey WE of our especial Grace, certain Knowledge and mere Motion, DO by these presents for us our Heirs and Successors create, make, ordain, constitute nominate, and appoint the Governor, and Commander in Chief of our said Province of New Jersey for the Time being, and also our trusty and well beloved John Reading, James Hude, Andrew Johnston, Thomas Leonard, John Kinsey, Edward Shippen, and William Smith Esquires, Peter Van Brugh Livingston, William Peartree Smith and Samuel Hazard Gentlemen, John Pierson, Ebenezer Pemberton, Joseph Lamb, Gilbert Tennent, William Tennent, Richard Treat, Samuel Blair, David Cowel, Aaron Burr, Timothy Jones, Thomas Arthur, Jacob Green, Ministers of the Gospel, to be Trustees of the said College of New Jersey. [Repealed clause relative to oaths omitted.] THAT no Meeting of the Trustees Shall be Valid or legal for doing any Business whatsoever unless the Clerk has duly and legally notified each and every Member of the Corporation, of such Meeting, and that before the entering on any Business the Clerk

shall certify such Notification under his Hand to the Board of Trustees. THAT the said Trustees have full Power and Authority, or any thirteen [number changed] or greater Number of them, to elect nominate and appoint, and associate unto them any Number of Persons as Trustees, upon any Vacancy, so that the whole number of the Trustees exceed not twenty-three [altered to twenty-seven], whereof the president of the said College for the Time being to be chosen as hereafter mentioned, to be one, and twelve of the Said Trustees to be always Such persons as are Inhabitants of our said Province of New Jersey. AND WE DO FURTHER of our especial Grace, certain Knowledge, and meer Motion, for us our Heirs and Successors, will, give grant, and appoint, that the said Trustees and their Successors shall for ever here after be, in Deed, Fact, and Name a Body Corporate and Politick, and that they the said Body Corporate and Politick Shall be known and distinguished in all Deeds, Grants, Bargains, Sales, Writings, Evidences, Muniments, or otherwise howsoever, and, in all Courts for ever hereafter, plead and be impleaded by the Name of the Trustees of the College of New Jersey. AND that they the said Corporation, by the Name aforesaid, Shall be able, and in Law capable, for the use of the said College to have, get, acquire, purchase, receive, and possess Lands, Tenements, Hereditaments, Jurisdictions and Franchises for themselves, and their Successors, in Fee Simple or otherwise howsoever; AND to purchase receive or build any House or Houses, or any Other Buildings as they Shall think needfull or convenient for the Use of the Said College of New Jersey, and in such Place or places in New Jersey, as they the said Trustees shall agree upon. AND also to receive and dispose of any Goods, Chattles and other things of what Nature soever for the Use aforesaid, and receive any Rents, Profits, Annuities, Gifts, Legacies, Donations, and Bequests of any kind whatsoever for the Use aforesaid, so nevertheless the yearly clear Value of the Premises do not exceed the sum of two thousand Pounds Sterling [amount changed]. AND therewith or otherwise to support and pay (as the said Trustees and their Successors or the major Part of such of them as (according to the Provision herein afterwards) are regularly convened for that purpose shall agree and see Cause) the President, Tutors, and other Officers or Minister of the said College, their respective annual Salaries or Allowance and all such other necessary and contingent Charges as from

time to time Shall arise and accrue relating to the Said College. AND also to grant, bargain, Sell, let, set, or assign, Lands Tenements, or Hereditaments Goods or Chattles, contract or do all other things whatsoever, by the Name aforesaid and for the Use aforesaid, in as full and ample Manner to all Intents and Purposes, as any natural Person or other Body Politick or Corporate is able to do, by the Laws of our Realm of Great Britain or of our said Province of New Jersey. AND OF OUR FURTHER Grace, certain Knowledge, and meer Motion, to the Intent that our said Corporation and Body Politick may answer the end of their Erection and Constitution, and may have perpetual Succession and continue for ever. We do for us our Heirs and Successors hereby will, give, and grant unto the said Trustees of the College of New Jersey, and to their Successors for ever, that when Any thirteen [number changed, and so below wherever thirteen stands] of the said Trustees or of their Successors are convened and met together as aforesaid for the Service of the said College, the Governor and Commander in Chief of our said Province of New Jersey, and in his Absence the President of the said College, and in the absence of the said Governor and President, the eldest Trustee present at such Meeting, from time to time, Shall be president of the said Trustees at all their Meetings, and at any time or times such thirteen Trustees convened and met as aforesaid Shall be capable to act as fully and amply to all Intents and Purposes, as if all the Trustees of the said College were personally present. PROVIDED always that a Majority of the said thirteen Trustees be of the said Province of New Jersey, except, after regular Notice they fail of coming, in which Case those that are present are hereby impowered to act, the different place of their Abode notwithstanding, and all affairs and Actions whatsoever under the Care of the said Trustees shall be determined by the Majority or greater Number of those thirteen so convened and met together, the President whereof shall have no more than a single vote. AND WE DO for us our Heirs and Successors hereby will, give, and grant full Power and Authority to any six or more of the said Trustees to call Meetings of the said Trustees from time to time and to order Notice to the said Trustees of the Times and Places of Meeting for the Service aforesaid. AND ALSO WE DO hereby for us our Heirs and Successors, will, give, and grant to the said Trustees of the College of New Jersey, and to

their Successors for ever, that the Said Trustees, do elect nominate, and appoint such a qualified Person as they or a major Part of any thirteen of them, convened for that purpose as above directed, Shall think fit, to be the President of the said College, and to have the immediate Care of the Education and Government of such Students as shall be sent to, and admitted into the said College for Instruction and Education. AND ALSO that the said Trustees do elect nominate and appoint so many Tutors and Professors to assist the President of the said College, in the Education and Government of the Students belonging to it, as they the said Trustees or their Successors or the major part of any thirteen of them, which shall convene for that purpose as above directed, Shall from time to time and at any time hereafter think needful and serviceable to the Interests of the said College.

AND ALSO THAT THE SAID TRUSTEES AND THEIR SUCCESSORS, or the major Part of any thirteen of them, which shall convene for that purpose as above directed, Shall at any time displace and discharge from the Service of the said College, such President Tutors and Professors, and to elect others in their Room and Stead AND ALSO that the said Trustees or their Successors, or the major Part of any thirteen of them which Shall convene for that Purpose as above directed, do from time to time as occasion Shall require, elect, constitute and appoint a Treasurer, a Clerk, an Usher, and a Steward for the said College, and appoint to them and each of them their respective Business and Trusts, and displace and discharge, from the Service of said College, such Treasurer, Clerk, Usher, or Steward, and to elect others in their Room and Stead, which President, Tutors, Professors, Treasurer, Clerk, Usher, and Steward, so elected and appointed, WE DO for us our Heirs and Successors, by these Presents constitute and establish in their several Offices, and do give them and every of them full Power and Authority to exercise the same in the said College of New Jersey, according to the Direction and during the Pleasure of the said Trustees, as fully and freely as any other the like Officers in our Universities or any of our Colleges in our Realm of Great Britain lawfully may and ought to do. AND ALSO that the said Trustees and their Successors or the major Part of any thirteen of them, which shall convene for that Purpose as above directed, as often as one or more of the said Trustees Shall

happen to dye, or by removal or Otherwise Shall become unfit or uncapable according to their Judgment to serve the Interest of the said College, do, as soon as conveniently may be after the Death, Removal, or such Unfitness or Incapacity of such Trustee or Trustees to serve the Interest of the said College, elect and appoint such other Trustee or Trustees as shall supply the place of him or them so dying, or Otherwise becoming unfit or uncapable to serve the Interest of the said College; and every Trustee so elected and appointed, Shall by Vertue of these presents and of such Election and Appointment be vested with all the Power and Privileges which any of the other Trustees of the said College are hereby invested with, AND WE DO FURTHER of our especial Grace, certain Knowledge and meer Motion, will, give, and grant, and by these Presents do, for us our Heirs and Successors, will, give, and grant, unto the said Trustees of the College of New Jersey, that they and their Successors, or the major Part of any thirteen of them, which Shall convene for that Purpose, as above directed, may make, and they are hereby fully impowered from Time to Time, freely and lawfully to make and establish such Ordinances, Orders, and Laws, as may tend to the good and wholesome Government of the said College, and all the Students and the several officers and Ministers thereof, and to the public Benefit of the same, not repugnant to the Laws and Statutes of our Realm of Great Britain or of this our Province of New Jersey, and not excluding any Person of any religious Denomination, whatsoever from free and equal Liberty and Advantage of Education, or from any of the Liberties Priviliges or Immunities of the said College on Account of his or their being of a religious profession different from the said Trustees of the said College, and Such Ordinances, Orders, and Laws, which Shall be so as aforesaid made, WE DO by these Presents for us our Heirs and Successors ratify, allow of, and confirm as good and effectual to oblige and bind all the said Students, and the several Officers and Ministers of the said College, AND WE DO hereby authorize and impower the said Trustees of the College, and the President, Tutors and Professors by them elected and appointed to put such Ordinances and Laws in Execution to all Proper Intents and Purposes. AND WE DO FURTHER of our especial Grace, certain Knowledge, and meer Motion, will, give, and grant, unto the said Trustees of the College of New Jersey that for the Encourage-

ment of Learning and animating the Students of the said College to Diligence Industry and a laudable Progress in Literature, that they and their Successors, or the major Part of any thirteen of them convened for that Purpose as above directed, do, by the President of the said College for the time being or by any other deputed by them give and grant any such Degree and Degrees to any of the Students of the said College, or to any others by them thought worthy thereof as are usually granted in either of our Universities or any other College in our Realm of Great Britain, and that they do sign and seal Diplomas or Certificates of such Graduations to be kept by the Graduates as Perpetual Memorials or Testimonials thereof. AND FURTHER of our especial Grace, certain Knowedge, and meer Motion, WE DO by these Presents for us our Heirs and Successors give and grant unto the Said Trustees of the College of New Jersey and to their Successors, that they and their Successors Shall have a common Seal under which they may pass all Diplomas and Certificates of Degrees, and all other the Affairs and Business of and concerning the said Corporation, or of and concerning the said College of New Jersey, which shall be engraven in Such Form and with such Inscription as Shall be devised by the said Trustees of the said College, or the major Part of any thirteen of them, convened for the Service of the said College as above directed. AND WE DO FURTHER for us our Heirs and Successors give and grant unto the said Trustees of the College of New Jersey and their Successors, or the major Part of any thirteen of them, convened for the Service of the College as above directed, full Power and Authority from time to time to nominate and appoint all other inferior Officers and Ministers which they shall think to be convenient and necessary for the Use of the College, not herein particularly named, or mentioned, and which are accustomary in our Universities, or in any of our Colleges in our Realm of Great Britain, which Officers or Ministers we do hereby impower to execute their Offices or Trusts as fully and freely as any other the like officers or Ministers in any of our Universities, or any other College in our Realm of Great Britain lawfully may or ought to do.

AND LASTLY our express Will and Pleasure is, and we do by these Presents for us our Heirs and Successors, give and grant unto the said Trustees of the College of New Jersey, and to their Suc-

cessors forever, that these our Letters Patent or the Enrollment thereof shall be good and effectual in the Law to all Intents and Purposes, against us our Heirs and Successors, without any other License, Grant or Confirmation, from us our Heirs and Successors hereafter by the said Trustees to be had or obtained; Notwithstanding the not reciting or Misrecital, or not naming or mis-naming of the aforesaid Offices, Franchises, Privileges, Immunities, or other the Premises or any of them, and notwithstanding a Writ of Ad quod Damnum hath not issued forth to enquire of the premises or any of them, before the ensealing hereof; Any Statute, Act, Ordinance or Provision, or any other Matter or thing to the contrary notwithstanding. TO have hold and enjoy all the singular the Priviliges, Advantages, Liberties, Immunities, and all other the Premises herein and hereby granted and given or which are meant mentioned or intended to be herein and hereby given and granted unto them the said Trustees of the said College of New Jersey and to their Successors forever. IN TESTIMONY whereof We have caused these our Letters to be made Patent, and the Great Seal of our said Province of New Jersey to be hereunto affixed. WITNESS our trusty and well beloved JONATHAN BELCHER Esquire Governor and Commander in Chief of our said Province of New Jersey this fourteenth day of September in the twenty second Year of our Reign, and in the Year of our Lord one thousand seven hundred and forty eight.

I have perused and Considered the within Charter of Incorporation, and find nothing Contained therein Inconsistent with his Majesty's Interest or the Honor of the Crown.

J. WARRELL, *At Genll.*

September ye 13th. 1748.—This charter having been read in Council was consented to and approved of.

CHA. READ, *Cl. Con.*

Lett the Great Seal of the Province of New Jersey be Affixed to this Charter.

J. BELCHER.

To the Secretary of the Province of New Jersey.

The second charter had been sought by the original Trustees in order to increase their number, to give other religious communions a share in the administration, and to

make the lay Trustees equal in number to those who were clergymen. Numerous doubts, besides, had been expressed as to the validity of the first charter, which had been granted by the President of the Council, then acting governor, and which had never been recorded *verbatim* in the records of the Secretary of State. The interest taken by Governor Belcher in the affairs of the institution and the wise forethought of its founders, by the execution of the second and more comprehensive document, effectually removed all doubts as to the validity of their powers. After the Revolution this charter was confirmed and renewed by the Legislature of the State of New Jersey.

After the granting of the first charter measures were at once taken to open the College, and on February 2, 1747, a notice appeared in the *New York Gazette Revived in the Weekly Post Boy*, notifying "any Person or Persons who are qualified by preparatory Learning for Admission, that some time in May next at latest they may be there admitted to an Academic Education." On the 20th of April, the following notice was given through the same journal:

> This is to inform the Publick, That the Trustees of the College of New-Jersey, have appointed the Reverend Mr. Jonathan Dickinson, President of the said College; which will be opened the fourth week in May next, at Elizabeth-Town: At which Time and Place, all Persons suitably qualified, may be admitted to an Academic Education.

Hatfield, in his *History of Elizabeth*, states that "the first term of the College of New Jersey was opened at Mr. Dickinson's house, on the south side of the old Rahway road, directly west of Race street." President Dickinson's term of administration was brief, commencing on the fourth week in May, 1747, and closing with his death, which occurred October 7, 1747. Upon his decease the Rev. Aaron Burr assumed the charge of the College, which was removed from Elizabethtown to Newark. To Burr belongs

the credit for the organization of the curriculum, the ceremonies of the College, and its discipline.

The first Commencement was held at Newark, November 9, 1748, and was celebrated with much ceremony. This occasion had been somewhat delayed owing to the desire of Governor Belcher to there present the Trustees with the second charter, which could not sooner be completed. The *New York Gazette Revived in the Weekly Post Boy* published an account of the proceedings of this Commencement in detail, together with the inaugural address of President Burr, with the following endorsement: "As the Acts of a publick Commencement are little known in these Parts, perhaps the following Relation from an Eye and Ear Witness, may be agreeable to many of our Readers." The President, in his address, emphasized the need of a broad and liberal education as the firmest foundation of the Commonwealth, and concluded with an eulogy upon the generosity of their patron, Governor Belcher. The graduating class numbered six.

A set of laws for the government of the College, probably prepared by Burr, were adopted by the Trustees at this time. One, relating to the admission of students, gives a fair idea of the entrance requirements of the period:

1. None may be expected to be admitted into College but such as being examined by the President and Tutors shall be found able to render Virgil and Tully's Orations into English; and to turn English into true and grammatical Latin; and to be so well acquainted with the Greek as to render any part of the four Evangelists in that language into Latin or English; and to give the grammatical connection of the words.

The Trustees also announced "That the annual Commencement for the future be on the last Wednesday of September, and that the next Commencement be held at New Brunswick." A majority of the Board appear to have favored New Brunswick as a permanent location for the

College, and in this way hoped to interest the inhabitants, to the end that pecuniary aid might be forthcoming for the erection of suitable buildings. The need of funds being urgent, application was made to the Provincial Assembly for authority to raise by a lottery a sum not exceeding eight thousand dollars, but the request was denied and the lottery was transferred to Philadelphia. Several years later, in 1761–2, the Assembly granted this privilege, as did also the General Court of Connecticut (1753–4).

In casting about for a desirable site for the location of the Institution, the situation of Princeton at once commended itself. Not only was it midway between the cities of New York and Philadelphia and its one street a part of the great highway between them, but it occupied a central position upon rising ground, insuring healthful surroundings, on the line dividing East and West Jersey. Here, among the first foothills of the Appalachians, a settlement had been made so early as 1696, called Prince-town, probably because it was near neighbor to the older village of Kingstown. New Brunswick, because of its greater size and somewhat similar though not so favorable location, claimed the first consideration; but the Trustees, well aware of the pecuniary value of a college to any town in which it should be placed, were desirous of securing the full advantage accruing from this fact, and voted, September 26, 1750:

That a proposal Be made to the Towns of Brunswick and Prince-Town to try what Sum of Money They can Raise for Building of the College by the next meeting that the trustees may Be Better able to Judge in Which of these places to fix the place of the College.

At the next meeting of the Board, held in Trenton, May 15, 1751, the following resolution was adopted:

Voted that New-Brunswick be ye Place for the Building of the College, provided the Inhabitants of sd. Place agree with the Trustees upon the following Terms, Viz. that they secure to the College

a Thousand Pounds proc. Money, ten acres of land contiguous to the College, and two hundred acres of Wood Land, the furthest Part of it not to be more than three Miles distant from the Town; or such a Quantity of Wood Land as the Trustees of the College shall judge Equivalent to two hundred Acres of Wood Land offered to be given by some gentleman in Prince Town.

Mr. Jonathan Sergeant, the Treasurer, was ordered to view the land at Princeton and New Brunswick and report to the Board. The citizens of the latter place do not appear to have been eager to accept the terms imposed by the Board, and, failing to comply by the time allowed, it was voted, September 27, 1752:

That the College be fixed at Princeton upon Condition that the Inhabitants of sd. Place secure to the Trustees that two Hundred Acres of Woodland, and that ten Acres of clear'd Land which Mr. Sergeant view'd; and also one thousand Pounds proc. Money.

This action finally settled the vexed question of location, and, the citizens of the town having complied with the terms proposed by the Board, steps were at once taken for the erection of the first college building. The plans drawn by Dr. Shippen and Robert Smith were accepted by the Trustees. These, according to the Minutes of July 22, 1754, specified "That the College be built of Brick if good Brick can be made at Princeton & if Sand can be got reasonably cheap. That it be three story high & without any Cellar;" but at a subsequent meeting it was decided that stone be used for the College edifice. The land for this building was given by Nathaniel Fitz Randolph, who also donated twenty pounds currency. Ground was broken on the 29th of July, 1754, under the direction of Joseph Morrow, and soon afterward the corner-stone was laid, in the presence of Thomas Leonard, John Stockton, John Horner, William Worth (stone mason), Nathaniel Fitz Randolph, and many others. It was the purpose of the Trustees to name the new building after the patron and benefactor of

the College, Governor Belcher, but with rare modesty he declined the honor, requesting the Board to call the edifice "Nassau Hall," as expressing "the Honour we retain, in this remote Part of the Globe to the immortal Memory of the Glorious King William the 3d., who was a Branch of the illustrious House of NASSAU." This request was complied with in the following terms:

Whereas his Excellency Govr. Belcher has signified to us, his declining to have the Edifice we have lately erected at Princeton for the Use and Service of New-Jersey College to be called after his Name, and has desired and for Good Reasons that it should be call'd after the Name of the illustrious House of NASSAU; It is therefore voted, and is hereby ordered that the sd. Edifice be in all Time to come called and be known by the Name of NASSAU HALL.

The College was completed and the students removed from Newark to Princeton in the fall of 1756. The expenses incurred consequent upon the erection of so considerable a building, then the largest structure of its kind in the colonies, had prompted the Board, in 1753, to send the Rev. Gilbert Tennent and the Rev. Samuel Davies to Great Britain to solicit funds in behalf of the Institution. This undertaking was successful, and the money acquired sufficient to defray in part the cost of the building.

The death of President Burr occurred September 24, 1757, and three days later the Trustees at their stated meeting elected the Rev. Jonathan Edwards, of Stockbridge, Massachusetts, to fill the vacancy. The administration of President Burr was one of marked progress in the development of the College, and to him belongs the credit, in a great measure, of the successful establishment of the Institution and the organization of its curriculum and discipline.

President Edwards, after some delay, arrived at Princeton on the 16th of February, 1758, and assumed the duties

of his office. One week later he was inoculated for small-pox and died on the 22d of March. On the ninth of May, 1759, the Rev. Samuel Davies was elected to the Presidency and on the 26th of July entered upon the duties of his office. Mr. Davies was probably graduated from the Log College and was considered, "next to Whitefield, the most eloquent preacher of his age." He died February 4, 1761.

During his administration there were no material changes in the course of instruction; more attention, however, was given to the cultivation of English composition and elocution. President Davies gave much of his time to the building up of a suitable library for the College. A catalogue of the books in the library was prepared, with a preface by Davies, setting forth "The Design of the Publication," and asserting that "A large and well-sorted Collection of Books on the Various Branches of Literature is the most ornamental and useful Furniture of a College; and the most proper and valuable Fund with which it can be endowed." Text-books were also imported from London for the use of the students, and placed in the hands of the Steward for sale.

The Rev. Samuel Finley had been proposed for the Presidency at the meeting at which Davies was elected, and upon the death of the latter he was unanimously chosen as his successor. His administration lasted until the 17th of July, 1766, the date of his death. During this period the course of instruction remained the same as in former years, and the College maintained a steady growth.

On the 19th of November, 1766, the Trustees elected to the Presidency, John Witherspoon, D.D., LL.D., of Paisley, Scotland. Dr. Witherspoon at first declined; a year later, however, he accepted a reëlection and became sixth President of the College of New Jersey.

Witherspoon arrived in America during the summer of 1768 and was inaugurated on the 17th of August. The

shadow of the Revolution was already lengthening over the Colonies, and in this important crisis Witherspoon brought to the aid of his adopted land, whose cause he openly and boldly espoused, "political talents of the very highest order, and personal traits which made his immigration to the country an inestimable blessing to the struggling Colonists. He was bold and influential as an agitator; active with his pen and his voice; one of the foremost of the party of action; not only ready for a declaration of independence, but earnest in his advocacy of it (De Witt)." New Jersey was the destined battle ground of the Revolution and it needed the shrewd wit and strong hand of the great Scotchman to carry the College safely through the stormy days that followed. Among the students of this period (1770), were many who afterward were leading figures in the great struggle and in the constitutional problem which at the close of the war offered itself to every thoughtful mind. James Madison, Aaron Burr, Gunning Bedford, William Bradford, Philip Freneau, Hugh Henry Brackenridge, Henry Lee, Morgan Lewis, and Henry Brockholst Livingston were some of the pupils over whom Witherspoon was called to preside.

The spirit of resistance which the passage of the Stamp Act had provoked was nowhere more manifest than at Princeton. In 1765 the Senior class voted to appear at the Commencement dressed in American manufactures. This example was also followed by the undergraduates. In January, 1774, to show their patriotism, the students burned the Steward's winter store of tea, the effigy of Governor Hutchinson of Massachusetts sharing a like fate having a tea-canister tied about his neck.

For nearly eight years the varying fortunes of the Revolution told heavily on the College. The course of instruction was interrupted by the presence of both armies, Nassau Hall was wrecked, the library scattered and destroyed, and the philosophical apparatus, including the famous orrery

made by Joseph Rittenhouse of Philadelphia, ruined. During this period but one Commencement was omitted, that of 1777. The members of the graduating class, however, seven in number, received their degrees a few months later and are accounted graduates for that year.

During the battle of Princeton, January 3, 1777, a part of the Fortieth Regiment (British) remained in their barracks within the walls of Nassau Hall. Captain Hamilton's battery was ordered to dislodge them and several shots were sent into the building. One of these, tradition hath it, entering the chapel passed through the head of the portrait of King George the Second hanging upon the wall. The British quickly surrendered and 194 gave themselves up prisoners of war.

College orders were regularly resumed after the enemy had abandoned their occupation of the State, although, according to President Witherspoon's report, given through the public papers in 1779, the number of students did not at any time exceed ten. In the summer of 1783 a mutinous body of soldiers surrounding the State House in Philadelphia where Congress was sitting, caused that body to retire to Princeton and for a time Nassau Hall became the capitol of the Nation. The Commencement of 1783 is rendered notable in the annals of the College, from the attendance of General Washington, the National Congress, and the Marquis de la Luzerne, Minister from France.

The impoverished condition of the country consequent upon the war of the Revolution, laid a heavy burden upon the shoulders of the President and Trustees. Great credit is due to the perseverance and untiring energy displayed by Witherspoon throughout his administration in meeting and overcoming these difficulties. President Witherspoon died November 15, 1794.

Samuel Stanhope Smith, D.D., LL.D., a graduate of the College in the class of 1769, who succeeded Dr. Wither-

spoon, was elected to the Presidency May 6, 1795. During his term of office the course of instruction was broadened and the curriculum enlarged. Among the most important changes of this kind was the establishment of a professorship in chemistry. This was the first provision for regular instruction in this branch of science made by an American college. A grant of six hundred pounds per annum for three years was secured from the Legislature of the State, to reimburse the College for the damage sustained to its buildings, library, and philosophical apparatus during the Revolution. This appropriation, however, was not equal by a thousand dollars to the expense of repairing the philosophical apparatus.

On the 6th of March, 1802, Nassau Hall was destroyed, save for the outer walls, by fire together with almost the entire library and part of the philosophical apparatus. Steps were at once taken to raise funds wherewith to repair the loss, and an elaborate address "To the Inhabitants of the United States" was prepared by the Trustees and sent far and wide. In this appeal they were so far successful that by the 4th of April, 1804, more than forty-four thousand dollars had been collected. The rebuilding of Nassau Hall was completed during the summer of 1804.

Dr. Smith resigned the Presidency August 14, 1812, and was succeeded by Ashbel Green, D.D., LL.D., a graduate of the College (1783). Dr. Green's administration closed September 25, 1822, at which time he tendered his resignation to the Trustees. During this period of ten years the institution maintained a steady growth, both in the number of students and in the income from its invested funds.

On the 26th of September, 1822, the Trustees elected to the Presidency the Rev. John Holt Rice of Richmond, Virginia. Dr. Rice, being in ill-health, declined and the duties of the office for a time devolved upon the Vice-President, Philip Lindsley.

James Carnahan, D.D., LL.D., of the Class of 1800, was elected upon the 12th of May, 1823, and was inaugurated President August 5th of that year. President Carnahan's term of office was one of marked increase in the growth and development of the College. During his administration of thirty-one years, sixteen hundred and thirty-four students were graduated from the institution; the teaching corps was increased from two professors and two tutors, in 1823, to six professors, two assistant professors, and four tutors in 1854, and not less than seventy-five thousand dollars expended in the erection of new buildings, the purchase of apparatus and books, and the improvement of the College grounds.

A department of law was established in 1846, under the direction of the Hon. Joseph C. Hornblower, Chief Justice of the Supreme Court of New Jersey; James S. Green, and Richard S. Field, Attorneys. The degree of Bachelor of Laws was given for two years' residence study. There being no funds available for the support of this department the lectures were abandoned in 1852. During this period the degree of Bachelor of Laws was conferred upon seven.

President Carnahan resigned in 1853, but upon the request of the Board retained the office until the Commencement of 1854.

John Maclean, D.D., LL.D., was elected to the Presidency December 20, 1853, and inaugurated Wednesday, June 28, 1854. Dr. Maclean resigned December 11, 1867, retaining the office until the Commencement of 1868. During this period the number of students increased from 247 in 1854, to 281 in 1868. The Civil War deprived the institution of a large proportion of its students and is largely responsible for the small increase. Four new professorships were established, having a total endowment of $195,000, and the teaching corps increased to twenty. The movement to establish free scholarships in the College, under-

taken during the last years of President Carnahan's administration, was successful in obtaining $60,000. The interior of Nassau Hall was destroyed by fire for the second time on the night of the 10th of March, 1855. The damage to the building, the walls alone standing, amounted to above $50,000, upon which there was an insurance of $12,000. The work of rebuilding Nassau Hall was completed during the spring of 1860.

James McCosh, D.D., LL.D., Litt.D., of Queen's College, Belfast, was elected President of the College on the 29th of April, 1868. Dr. McCosh resigned the office in 1888, after an administration of twenty years. Under President McCosh the number of students increased from 281 in 1868, to 603 in 1887. Gifts amounting to upwards of three millions of dollars were contributed during this period, of which one million was expended in the erection of fourteen buildings. Among the more important changes in the curriculum were the introduction of the system of elective studies (1870); and the founding of the John C. Green School of Science (1873), offering courses leading to the degree of Bachelor of Science, Civil Engineer, and Master of Science; and the establishment of the Graduate Department (1877). The Faculty was enlarged from ten professors and seven tutors in 1868, to thirty-one professors, four assistant professors, and five tutors and instructors—a total of forty—in 1888.

Francis Landey Patton, D.D., LL.D., twelfth President of the College of New Jersey, was elected February 9, 1888, and inaugurated June 20, 1888. President Patton resigned the office June 9, 1902. During his administration of fourteen years the student enrolment increased from 603 in 1888, to 1354 in 1902. The Faculty numbered forty in 1888; in 1902, one hundred. Seventeen new buildings were erected during President Patton's incumbency.

In October, 1896, the one hundred and fiftieth anniversary of the signing of the First Charter of the College of New Jersey was celebrated; on the anniversary day, October 22, 1896, the title of Princeton University was assumed.

In 1900 a plan for Alumni Representation in the Board of Trustees was adopted. By this plan five Trustees were added to the Board, who hold office for five years (except those elected at the first election on June 11th, 1901) and are known as "Alumni Trustees"; one Trustee is elected yearly. No one is eligible for election as an Alumni Trustee excepting a graduate of Princeton University of not less than ten years' standing; all graduates of Princeton University of three years' standing who duly enroll are entitled to vote for Alumni Trustees. Nominations are made each year between the first day of January and the first day of April; the election takes place in Princeton on Tuesday of Commencement week, and votes may be cast either in person or by mail.

The title of the Corporation as now constituted is The Trustees of Princeton University.

Woodrow Wilson, Ph.D., Litt.D., LL.D., was elected to the Presidency in June, 1902, and inaugurated on the 25th of October of the same year.

PART III

TERMS OF ADMISSION

TERMS OF ADMISSION TO PRINCETON UNIVERSITY

IN EFFECT JUNE, 1905, AND THEREAFTER

ENTRANCE FEE

Each candidate who proposes to take the Princeton Entrance Examination in June should send to the Registrar before June 1st:

1. A statement containing his full name and the name and address of his parent, or guardian, and of his school. If he has taken preliminary examinations, this should be stated.

2. A fee of five dollars, either by money order or cheque payable to *Princeton University.*

In return he will receive a receipt from the Registrar which he must show to the examiner when he registers at the examination.

Candidates who have not sent this statement and fee may be admitted to the examinations; in such cases the reports of the results of the examinations may be delayed, and in no case will a report be sent until the fee is received.

Each candidate who takes his examination in September must pay the fee, unless he has already paid it in June, but those who have paid the fee in June shall be admitted without further payment to the September examinations of the same year. Candidates taking examinations in different years shall pay the fee each year.

Each candidate admitted to any class otherwise than by the regular examinations of the University (*e. g.*, on certificate of the College Entrance Examination Board) shall pay an admission fee of five dollars.

ENTRANCE EXAMINATIONS

All candidates for examination must report at the designated place half an hour before their first examination begins. Examinations for admission will be written, with supplementary oral examinations if needed.

In June, 1906, the order of examination will be as follows:

Latin, *Thursday, June 14th, 9 A. M. to 1 P. M.*
Algebra and Plane Geometry, *Thursday, June 14th, 2 to 6 P. M.*
Greek, *Friday, June 15th,* 8.30 *A. M. to* 12.30 *P. M.*
Trigonometry, *Friday, June 15th,* 8.30 *to* 10.30 *A. M.*
Solid Geometry, *Friday, June 15th,* 10.30 *A. M. to* 12.30 *P. M.*
French, German, Chemistry, Physics, *Friday, June 15th, 2 to 6 P. M.*
English, *Saturday, June 16th,* 8.30 *to* 10.30 *A. M.*
History, *Saturday, June 16th,* 10.30 *A. M. to* 12.30 *P. M.*

In September, 1906, the same order will be followed, beginning with Latin on Monday, September 17th, at 2 P. M.

All candidates are expected to appear promptly at the time set for an examination. No candidate will be allowed to enter an examination later than an hour after the scheduled time; and no candidate who has seen a question paper will be allowed to leave the examination until an hour and a half shall have elapsed.

Applicants who have any conditions or other deficien-

cies from the June examination are required to remove them at the September entrance examinations.

Simultaneously with the June entrance examinations in Princeton, examinations will also be held in the cities of New York, Philadelphia, Pittsburg, Albany, Buffalo, Chicago, Cincinnati, Cleveland, Denver, Harrisburg, Indianapolis, Kansas City, Louisville, Newark, Omaha, Portland, Ore., St. Louis, St. Paul, San Antonio, Scranton, Syracuse, Washington, Wilkes-Barre, and at such preparatory schools and other cities as the number of candidates or the distance from other places of examination may justify. The places in which the examinations are to be held can be learned by application to the Registrar.

Examinations at other times and places than those specified are very inconvenient and often impracticable, and applicants for examination on other than the regular days must obtain previous permission by writing to the Registrar and are required to pay $10 into the treasury.

All candidates for admission to any class, or as special students, must bring with them satisfactory testimonials of good moral character, preferably from their last instructors, and if the candidate has been a member of another college, university, or similar institution, he must produce a certificate from its president or faculty that he is free from censure in that institution.

Each applicant for admission should be provided with a statement, signed by his teacher, as to his fitness to be examined in each of the subjects which he offers. The statement is merely for the information of the examiners, and is in no sense an admission certificate. Blank forms may be obtained from the Registrar.

No candidate is admitted into the undergraduate department without examination and a vote of the Faculty.

PRELIMINARY EXAMINATIONS

At the examinations in June and September, candidates intending to enter the Freshman class one year later are admitted to examination in a portion of the subjects required for entrance. Certificates as to preparation in the subjects in which the candidate wishes to be examined should be presented.

FRESHMAN ENTRANCE REQUIREMENTS

The following entrance requirements are defined for the most part in close accordance with recommendations of the National Educational Association and of the College Entrance Examination Board. It is recommended that candidates be prepared for examination on the requirements as specified, but equivalents will be accepted. The University will in all cases be the judge of the equivalence of subjects offered as substitutes for the specified requirements.

There are three regular forms of entrance to the courses leading to degrees in Princeton University, *viz.* (1) Entrance for those who offer Greek and are candidates for the degree of A. B. (2) Entrance for those who do not offer Greek and are candidates for the degree of Litt. B. or B. S. (3) Entrance for those who are candidates for the degree of C. E.

The Freshman entrance requirements for candidates for the various degrees given in course in Princeton University are as follows: (The detailed statement of each subject is given on a later page.)

FRESHMAN ENTRANCE REQUIREMENTS FOR THE COURSE LEADING TO THE DEGREE OF A. B.

HISTORY. One and only one of

1. American History and Civil Government,
2. English History,
3. Ancient History

GREEK.

1. Greek Grammar,
2. Greek Composition A,
3. Xenophon,
4. Homer A.

LATIN.

1. Latin Grammar,
2. Latin Composition A,
3. Cæsar (four books),
4. Cicero A (six orations)
5. Virgil A (six books),
6. Sallust (Catiline).

ENGLISH.

1. English A (reading),
2. English B (careful study).

MODERN LANGUAGES. One and only one of

1. French A.
1. German A.

(For maximum requirements leading to advanced standing in French, see French B, and in German, see German B. Any candidate for admission to the course leading to the A. B. degree who passes either French B or German B at entrance may elect an advanced course in the subject passed by him, or may begin the other modern language which he did not offer for entrance.)

MATHEMATICS.

1. Algebra to Quadratics, A I,
2. Algebra, Quadratics through the Binomial Theorem, A II,
4. Plane Geometry.

FRESHMAN ENTRANCE REQUIREMENTS FOR THE COURSE LEADING TO THE DEGREES OF LITT. B. AND B. S.

N. B.—The degree of Bachelor of Science (B. S.) is open to those who concentrate in one of the Mathematical or Scientific Departments during the Junior and Senior years, and the degree of Bachelor of Letters (Litt. B.) has been constituted to be open to those who concentrate in one of the Departments in philosophical, political, literary, or other humanistic studies. The entrance requirements for these two degrees are identical.

HISTORY. One and only one of

1. American History and Civil Government,
2. English History,
3. Ancient History.

LATIN.

1. Latin Grammar,
2. Latin Composition A,
3. Cæsar (four books),
4. Cicero A (six orations),
5. Virgil A (six books),
6. Sallust (Catiline).

ENGLISH.

1. English A (reading),
2. English B (careful study)

MATHEMATICS.

1. Algebra to Quadratics, A I,
2. Algebra, Quadratics through the Binomial Theorem, A II,
4. Plane Geometry,
5. Solid Geometry,
6. Plane Trigonometry.

MODERN LANGUAGES AND SCIENCE. One and only one of the following five combinations:

1. French A and 1. German A,
2. French B and Physics A or B,
2. French B and Chemistry,
2. German B and Physics A or B,
2. German B and Chemistry.

FRESHMAN ENTRANCE REQUIREMENTS FOR THE COURSE LEADING TO THE DEGREE OF C. E.

In 1907, *and thereafter, there will be added to the C. E Freshman entrance requirements—*

HISTORY. One and only one of:

1. American History and Civil Government,
2. English History,
3. Ancient History.

Beginning in 1907, *no student will be admitted to the C. E. Freshman year until he has passed in all the mathematical subjects required for entrance.*

In 1908, *and thereafter, two of the three languages*: *Latin* (1, 2, 3, 4), *French A, German A, will be required for Freshman entrance to the C. E. course.*

In 1909, *and thereafter, the Latin requirement for C. E. Freshman entrance will be increased by the addition of Virgil A (six books), and Sallust (Catiline), thus being made the same as the A. B., Litt. B., and B. S. Freshman Latin entrance requirement.*

ENGLISH.

1. English A (reading),
2. English B (careful study).

FOREIGN LANGUAGES. One and only one of the three languages (in 1908, two of these languages will be required):

Latin (1. Latin Grammar, 2. Latin Composition A, 3. Cæsar, 4. Cicero). (In 1909, Virgil A and Sallust also.)
French (1. French A),
German (1. German A).

MATHEMATICS.

1. Algebra to Quadratics, A I,
2. Algebra, Quadratics through the Binomial Theorem, A II,
4. Plane Geometry,
5. Solid Geometry,
6. Plane Trigonometry.

SCIENCE. One and only one of the two sciences:

Physics A or B,
Chemistry.

[It is recommended that all candidates should receive instruction in freehand drawing before entrance.]

FRESHMAN ENTRANCE SUBJECTS

HISTORY

It is recommended that each of the following courses be pursued in the spirit and by the methods suggested in the Report of the Committee of Seven of the American Historical Association on the Study of History in Schools. (The Macmillan Co., 1899.)

1. *American History and Civil Government.* The course of study recommended for American History and Civil Government should occupy four exercises a week for one year. Military details may be omitted. The origins

of the American people and the development of their political life should be clearly understood in their main outlines.

2. *English History.* For the period preceding the Norman invasion a brief outline will suffice. The course of English History after that event down to 1850 should be carefully studied with proper reference to the development of political institutions.

3. *Ancient History.* For the present the requirement will be restricted to Greek History to the death of Alexander the Great, and Roman History to the accession of Commodus. As soon as it appears practicable, notice will be given and the requirement will be extended to comprise "Ancient History, with special reference to Greek and Roman History, and including also a short introductory study of the more ancient nations and the chief events of the Middle Ages down to the death of Charles the Great (814)." It is recommended that instruction in the schools should be extended to comprise Ancient History in the sense above defined.

GREEK

(1, 2, 3, 4 to be offered for A. B. entrance.)

1. *Greek Grammar.* The topics for the examination in Greek Grammar are similar to those detailed under Latin Grammar.

2. *Greek Composition A.* Consisting principally of detached sentences to test the candidate's knowledge of grammatical constructions.

The examination in grammar and prose composition will be based on the first two books of Xenophon's Anabasis.

3. *Xenophon.* The first four books of the Anabasis.

4. *Homer A.* The first three books of the Iliad (omitting II, 494-end).

Greek 5 and 6 are approved substitutes for 4. Candidates desiring papers in these subjects or desiring to offer

any other substitute for 4, must notify the Registrar of the University on or before May 1st, preceding the examinations.

5. *Homer B.* The sixth, seventh, and eighth books of the Iliad.

6. *Herodotus.* Selections from the seventh book, sections 1-60 and 172-239.

Papers will be regularly set in Greek 11 and 12. These subjects are not required, nor may they be substituted for any of the specified subjects, but excellence in them will be taken into account in the general estimate of the candidate's Greek papers.

11. *Greek Composition B.* Consisting of continuous prose, based on Xenophon, and other Attic prose of similar difficulty.

12. *Sight Translation.* Based on prose of no greater difficulty than Xenophon's Anabasis.

LATIN

1. *Latin Grammar.* The inflections; the simpler rules for composition and derivation of words; syntax of cases and verbs; structure of the sentence in general, with particular regard to relative and conditional sentences, indirect discourse and the subjunctive; so much prosody as relates to accent, versification in general, and dactylic hexameter.

2. *Latin Composition A.* Translation into Latin of detached sentences and very easy continuous prose, based upon Cæsar and Cicero.

3. *Cæsar.* Any four books of the Gallic War, preferably the first four.

4. *Cicero A.* Any six orations from the following list, but preferably the first six mentioned.

The four orations against Catiline, Archias, the Manilian Law, Marcellus, Roscius, Milo, Sestius, Ligarius, the Fourteenth Philippic.

5. *Virgil A.* The first six books of the Æneid.

6. *Sallust.* The Catiline.

Papers will be regularly set in Latin 7, which is an approved substitute for 6. Candidates desiring to offer 8, 9, 10, or any other substitute for any part of the specified subjects, 3, 4, 5, or 6, must notify the Registrar of the University on or before May 1st, preceding the examinations.

7. *Ovid.* Twenty-five hundred lines from the Metamorphoses.

8. *Virgil B.* The last six books of the Æneid.

9. *Virgil C.* The Eclogues and Georgics.

10. *Cicero B.* De Amicitia and De Senectute.

Papers will be regularly set in Latin 11 and 12. These subjects are not required, nor may they be substituted for any of the specified subjects, but excellence in them will be taken into account in the general estimate of the candidate's Latin papers.

11. *Latin Composition B.* Consisting of continuous prose of moderate difficulty, based on Cicero.

12. *Sight Translation.* Based exclusively on prose of no greater difficulty than the easier portions of Cicero's orations.

ENGLISH

(Both 1 and 2 to be offered by all candidates.)

The examination will be based upon the books prescribed by the uniform entrance requirements in English. Questions as to the subject matter, structure, and style of these books will be asked. Candidates must be prepared in all of the books required for the year of examination. For 1905 the books prescribed are:

1. *English A.* For reading, *Shakespeare's* The Merchant of Venice and Julius Cæsar, *Addison's* Sir Roger de Coverley Papers in The Spectator, *Goldsmith's* The Vicar of

Wakefield, *Coleridge's* The Ancient Mariner, *Scott's* Ivanhoe, *Carlyle's* Essay on Burns, *Tennyson's* The Princess, *Lowell's* The Vision of Sir Launfal, *George Eliot's* Silas Marner.

2. *English B.* For careful study, *Shakespeare's* Macbeth, *Milton's* Lycidas, Comus, L'Allegro, and Il Penseroso, *Burke's* Speech on Conciliation with America, *Macaulay's* Essays on Milton and Addison.

For 1906, 1907, and 1908 the books prescribed are:

1. *English A.* For reading, *Shakespeare's* The Merchant of Venice and Macbeth, *Addison's* Sir Roger de Coverley Papers in The Spectator, *Coleridge's* The Ancient Mariner, *Scott's* Ivanhoe and The Lady of the Lake, *Tennyson's* Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur, *Lowell's* The Vision of Sir Launfal, *George Eliot's* Silas Marner, *Irving's* Life of Goldsmith

2. *English B.* For careful study, *Shakespeare's* Julius Cæsar, *Milton's* Lycidas, Comus, L'Allegro, and Il Penseroso, *Burke's* Speech on Conciliation with America, *Macaulay's* Essays on Samuel Johnson and Addison.

GERMAN

1. *German A.* Candidates should be able to translate at sight a passage of simple German; to put into German short English sentences taken fom the language of everyday life or a passage of simple connected prose; and to answer questions upon the rudiments of grammar.

Satisfactory preparation for this examination is furnished in the two-year course in elementary German recommended by the Modern Language Association. The course comprises drill in pronunciation, memorizing easy sentences, the rudiments of grammar with easy exercises illustrating grammatical forms and principles, and the reading of 75 to 100 pages of graduated texts from a reader, followed by 150 to 200 pages of easy stories and plays. It is recommended, however, that not more than one play be read.

2. *German B.* Candidates should be able to translate at sight German prose of ordinary difficulty, whether recent or classical; to put into German a connected passage of ordinary English; and to answer any grammatical questions relating to usual forms and essential principles of the language, including syntax and word-formation.

Satisfactory preparation for this examination is furnished by the intermediate German course of three years recommended by the Modern Language Association. In addition to the preparation suggested for German A this preparation comprises the reading of about 400 pages of moderately difficult prose and poetry, with continued practice in grammar and composition.

FRENCH

1. *French A.* Candidates should be able to translate at sight easy French prose, to put into French simple English sentences, or a passage of easy connected prose, and to answer questions on the rudiments of the grammar.

Satisfactory preparation for this examination is furnished in the two-year course in elementary French recommended by the Modern Language Association. The course comprises drill in pronunciation, the rudiments of grammar, memorizing easy sentences, with easy exercises illustrating grammatical forms and principles, translation into French, writing French from dictation, and the reading of 100 to 175 pages of graduated texts, followed by 250 to 400 pages of easy modern prose in the form of stories, plays, or historical biographical sketches.

2. *French B.* Candidates should be able to translate at sight ordinary French prose or simple poetry, to put into French a connected passage of English prose and to answer questions involving a more thorough knowledge of syntax than is expected in French A.

Satisfactory preparation for this examination is fur-

nished by the intermediate French course of three years recommended by the Modern Language Association. In addition to the course recommended for French A this preparation comprises the reading of from 400 to 600 pages of moderately difficult French, a portion of it to be in the dramatic form, exercise in giving French paraphrases, and continued practice in grammar and composition.

MATHEMATICS

(1, 2, 4 to be offered by all candidates. In addition, 5 and 6 to be offered for Litt. B., B. S., and C. E.)

In all numerical work special emphasis is laid upon accuracy and facility in reckoning.

In each of the following subjects simple original exercises will be set.

Problems having to do with lengths, areas, or volumes will usually be stated in terms of the metric system of weights and measures.

1. *Algebra to Quadratics, A I.* The four fundamental operations for rational algebraic expressions, factoring, highest common factor, lowest common multiple, complex fractions, the solution of equations of the first degree containing one or more unknown quantities, radicals including the extraction of the square root of polynomials and numbers, and fractional and negative exponents.

2. *Elementary Algebra, Quadratics through the Binomial Theorem, A II.* Quadratic equations, equations in one or more unknown quantities that can be solved by the methods of quadratic equations, ratio and proportion, the progressions, the elementary treatment of permutations and combinations, the binomial theorem for positive integral exponents, and the use of four, five, and six place logarithms.

4. *Plane Geometry.* Demonstrations of theorems, and constructions and demonstrations of problems; the solution of simple numerical exercises, including lengths of lines and

areas of the triangle, parallelogram, trapezoid, regular polygons, and circle; simple original exercises in construction and demonstration.

5. *Solid Geometry.* Properties of straight lines and planes, of dihedral and polyhedral angles, of projections, of polyhedrons (including prisms, parallelepipeds, pyramids and the regular solids), of cylinders, cones and spheres, of spherical triangles, and the mensuration of these solids and their surfaces.

6. *Plane Trigonometry* Definitions of the six trigonometric functions as ratios, relations between these six functions, values of the functions for 0°, 30°, 45°, 60°, 90°, 120°, 135°, etc., etc., formulas for the sine, cosine, and tangent of the sum or difference of two angles for all angles, formulas for the sum or difference of two sines or two cosines, expressions for the functions of double and half angles, trigonometric identities and equations, theory of logarithms and the use of trigonometric tables, and the solution of right and oblique plane triangles. A knowledge of the meaning of the circular measure of angles and of the inverse trigonometric functions is also desirable.

PHYSICS

The requirement in elementary physics may be met in either of the two following ways:

1. *Physics A.* By passing an examination on the subject as it is presented in such text-books as *Gage's* Principles of Physics. In this examination much emphasis will be laid upon the student's ability to solve numerical problems.

2. *Physics B.* By presenting a laboratory note-book containing full records of all the experimental work performed by the student during his course of preparation. This note-book must bear the certificate of the instructor that the records were made by the student himself, and that they are a faithful description of the laboratory work actu-

ally done by him The note-book should be paged and properly indexed The presentation of this note-book will excuse the student from the examination on the general subject, but he will still be examined on the solution of numerical problems as prescribed in A. The metric system will be used exclusively in the examination.

In order to meet requirement A at least one school year, with four or five recitations per week, should be devoted to the subject. This course should be accompanied by class-room demonstrations conducted by the teacher. Requirement B may be met in the same length of time by dividing the time about equally between recitations based on a suitable text-book and laboratory exercises performed by the student himself. While it is desirable that this laboratory work have a large range and accordingly be mainly of a qualitative character, still due stress should be laid upon the performance of exact quantitative work.

CHEMISTRY

1. *Chemistry.* The candidate's preparation should include: (1) The study of a standard text-book, (2) instruction by lecture-table demonstrations, and (3) individual laboratory work, embracing forty exercises selected from some such work as *Smith* and *Keller's* Experiments for Students in General Chemistry.

The requirement embraces the sources, preparation, physical and chemical properties of the following elements and their most important compounds: *hydrogen, oxygen, chlorine, nitrogen, carbon, bromine, iodine, fluorine, sulphur,* phosphorus, arsenic, *silicon, potassium sodium, calcium,* magnesium, aluminium, *zinc, iron,* manganese, *copper,* mercury, silver, *lead,* and tin. Detailed study should be given to the italicized elements and their compounds. Further, candidates should be well posted in matters relating to natural waters, the atmosphere, the laws of chemical combinations by weight and by volume, oxidation and reduction, combustion, nascent state, catalysis, bases, acids, and salts,

the nature and structure of flames, precipitation, distillation, crystallization, the elementary gas laws and their applications, the atomic and molecular theories, equation writing, stoichiometrical calculations and valency. They should also have some elementary knowledge of chemical energy, mass action, equilibrium, and the ionic theory.

At the examination each candidate must hand in, along with his paper, a note-book containing a detailed record of the practical work done by him in the laboratory, and this note-book must bear the endorsement of his instructor.

The requirements are intended to be essentially equivalent to those specified in the Plan of Organization of the College Entrance Examination Board of the Middle States and Maryland.

Examination Certificates Issued by the College Entrance Examination Board

will be accepted in place of the regular entrance examinations, in so far as the certificates presented correspond to the requirements of this University. Candidates offering such certificates are required to submit therewith the testimonials as to character and general fitness prescribed above for other candidates. The latter testimonial shall state definitely the amount of work done in each subject offered for examination.

ADMISSION TO SPECIAL COURSES

In exceptional cases students are admitted to the privileges of the University, not as members of any one of the four regular classes or candidates for a degree, and are allowed to take special undergraduate courses, selected under the direction of the Faculty, in such a manner as to secure full and profitable employment of their time. Such special students undergo an entrance examination sufficient to ascertain their preparation for the courses proposed, and

are subject to the same regulations and discipline and to the same examinations in the studies pursued as other undergraduates. Those desiring to enter as special students are expected to take the regular entrance examinations upon such subjects as they offer, and in case the applicant passes in a sufficient number of subjects he will ordinarily be accorded a special course of study. These special courses, however, are not offered to those who have failed in the regular course.

When special students are finally leaving the University certificates of proficiency, signed by the President and Registrar, may be granted them on report by the Committee on Special Students that they have completed the courses on their schedule.

ADMISSION TO ADVANCED STANDING

Candidates for admission to an advanced class will be examined in the studies previously pursued by the class they purpose entering, and may also be required to pass the regular examinations for admission to the Freshman class. While a certificate of satisfactory work done in any of these studies in another institution will not necessarily excuse from examination, it may in some degree modify the examination, and should therefore always be presented. Examinations for advanced standing are held ordinarily in Princeton only.

Candidates for admission to the Sophomore class, who have not completed the studies of the Freshman class at another approved institution, must first pass an examination on the studies required for admission to the Freshman class.

Candidates for admission to the Sophomore, Junior, or Senior class, when coming from another institution, are examined only in the studies of the year preceding that which

they wish to enter, provided they present evidence that they have passed satisfactory examinations on the previous studies of the curriculum and entrance requirements, or their equivalents.

A candidate coming from an undergraduate class in an approved institution may be allowed, at the discretion of the Faculty, to enter the next lower class in this University without examination, provided he present satisfactory certificates from his former institution.

At the discretion of the Faculty the Bachelor diploma of an approved institution may be taken in place of the examination for entrance to the Senior year.

No person is admitted to the University as a candidate for a Bachelor's degree, or for the degree of Civil Engineer, after the beginning of the first term of the Senior year.

REGULATION CONCERNING SECRET SOCIETIES

Immediately after the beginning of the academic year the students entering the Undergraduate Department meet according to announcement for matriculation, and subscription to the following pledge is required by the Board of Trustees:

> We, the undersigned, do individually for ourselves promise, without any mental reservation, that we will have no connection whatever with any secret society, nor be present at the meetings of any secret society in this or any other institution so long as we are members of Princeton University, it being understood that this promise has no reference to the American Whig and Cliosophic Societies. We also declare that we regard ourselves bound to keep this promise and on no account whatever to violate it.

PART IV

SYSTEM OF UNDERGRADUATE STUDY

SYSTEM OF UNDERGRADUATE STUDY

The courses of study offered to candidates for a Bachelor's degree extend through four academic years, and lead to the degrees of Bachelor of Arts (A.B.), Bachelor of Letters (Litt.B.), and Bachelor of Science (B.S.). The candidate for a Bachelor's degree enters either the Academic Department or the John C. Green School of Science. The curriculum of the Academic Department leads to the degrees of Bachelor of Arts and Bachelor of Letters; the curriculum of the School of Science to the degrees of Bachelor of Science and Civil Engineer. The degree of Bachelor of Arts (A.B.) is conferred upon those who, entering with Greek, fulfill the full classical requirements of Freshman and Sophomore years; candidates for the degree being free, after the two introductory years, to choose their studies in whatever Department they prefer, whether philosophical, literary, or scientific. The degree of Bachelor of Letters (Litt.B.) is conferred upon those who, having substituted for Greek at entrance either French and German or one of those languages and physics or chemistry, after entrance concentrate their studies in one of the philosophical, literary, political, or other humanistic Departments. The degree of Bachelor of Science is conferred upon those who, entering with a similar substitution for Greek, concentrate their studies after entrance upon one of the mathematical or scientific Departments. The degree of Civil Engineer is conferred upon those who pursue the full course in Civil Engineering, as outlined on succeeding pages.

The schedule of every Sophomore, Junior, and Senior consists of five courses of three hours a week, subject only

to such exemptions as are established for candidates for Special Honors.

The various courses of study offered are open only to students of that year to which the courses belong, except in cases where students are allowed or required to take a course belonging to a preceding year.

THE FRESHMAN YEAR

The course of the Freshman year is composed of sixteen class exercises a week, of which two each week are given to the study of English, four to Latin, and four to mathematics. In addition to the English, Latin, and mathematics, each candidate for the A.B. degree has four exercises devoted to Greek and two exercises devoted to the modern language which he offered at entrance; and each candidate for the Litt.B. or B.S. degree has three exercises a week in the modern language which he has offered at entrance, together with three additional exercises, either in the other modern language (French or German) or in physics, according as he has or has not offered physics for entrance.

THE SOPHOMORE YEAR

The Sophomore courses, required and elective, arranged so as to include elementary courses prerequisite to the subsequent studies of the various departments, are as follows:

SOPHOMORE A. B.—REQUIRED

Physics
Logic (1st term). Psychology (2d term)
Greek (1st term), Latin (2d term)

ELECTIVE (*Two courses to be taken*)

Latin (1st term), Greek (2d term)
Chemistry
Mathematics
History (1st term), English (2d term)
French (Advanced or Beginners')
German (Advanced or Beginners')

SOPHOMORE B. S. AND LITT. B.—REQUIRED
Physics
Logic (1st term), Psychology (2d term)

ELECTIVE (*Three courses, one of which must be Latin or Mathematics to be taken*)
Latin
Mathematics
Chemistry
Graphics, if Mathematics is taken
History (1st term), English (2d term)
French (Advanced or Beginners')
German (Advanced or Beginners')

The student's choice of a Department for Junior and Senior years is largely conditioned by his selection of the electives in the Sophomore year. The Sophomore prerequisite and advised elective courses for the various Departments are as follows:

[PREREQUISITE Sophomore elective courses in small capitals. *Advised* Sophomore elective courses in italics.]

	DEPARTMENT	PREREQUISITE AND ADVISED ELECTIVE COURSES	FOR DEGREE OF
I.	*Philosophy*	*A foreign language*	A.B. & Litt.B.
II.	*History, Politics, and Economics*	HISTORY *A foreign language*	A.B. & Litt.B.
III	*Art and Archæology*	CLASSICS, through year *A modern language*	A.B.
		LATIN, through year *A modern language*	Litt.B.
IV.	*Classics*	CLASSICS, through year	A.B.
V.	*English*	ENGLISH *A foreign language*	A.B.
		ENGLISH LATIN, through year *A modern language*	Litt.B.
VIa	*Modern Languages Germanic Section*	GERMAN, through year	A.B. & Litt.B.

	DEPARTMENT	REQUIREMENTS AND ADVISED ELECTIVE COURSES	FOR DEGREE OF
VIb.	*Modern Languages* *Romanic Section*	FRENCH, through year *Classics*	A.B.
		FRENCH, through year LATIN, through year	Litt.B.
VII.	*Mathematics*	MATHEMATICS, through year	A.B. & B.S.
VIII.	*Physics*	MATHEMATICS, through year *Chemistry*	A.B. & B.S.
IX.	*Chemistry*	CHEMISTRY, through year *Mathematics* (must be taken here or in Junior year)	A.B. & B.S.
X.	*Geology*	CHEMISTRY, through year *A modern language*	A.B. & B.S.
XI.	*Biology*	CHEMISTRY, through year *A modern language*	A.B. & B.S

THE JUNIOR YEAR

Each Junior must choose a Department in which to concentrate his studies, and must take all the Junior year courses of that Department, as indicated in the list of Junior courses, as well as the courses which are there stated to be cognate to that Department. Three of his five courses must, in all cases, be in the Division in which the Department chosen lies, and one course shall be outside of the Division in which this Department lies, the remaining course being left to his free election.

LIST OF COURSES OF JUNIOR YEAR

[The numbers prefixed to the courses in the following list refer to the description of those courses on later pages. First term courses have odd numbers; second term courses have even numbers.]

A. DIVISION OF PHILOSOPHY

I. *Department of Philosophy*

31, 32. History of Philosophy

33. Advanced Psychology. 34. Advanced Logic

(*Advised elective*: 33, 34. Politics)

II. *Department of History, Politics, and Economics*
31, 32. History
33, 34. Politics
35, 36. Economics
(*Advised elective*: 31, 32. History of Philosophy)

B. DIVISION OF ART AND ARCHÆOLOGY

III. *Department of Art and Archæology*
31, 32. Art and Archæology
33, 34. Art and Archæology
(*Requisite cognate courses*: A course in Classics through the year; A modern language through the year)
(*Advised elective*: 31, 32. History of Philosophy)

C. DIVISION OF LANGUAGE AND LITERATURE

IV. *Department of Classics*
31, 32. Greek
33, 34, Latin
(*Advised elective*: 31, 32. History of Philosophy)

V. *Department of English*
31, 32. English Literature
33, 34. English Philology

VIa. *Department of Modern Languages. Germanic Section*
31, 32. German
(*Requisite cognate course*: 33, 34. English Philology)

VIb. *Department of Modern Languages. Romanic Section*
31, 32. French
35, 36. Italian, or 37, 38. Spanish
(*Advised elective*: 33, 34. Latin)

D. DIVISION OF MATHEMATICS AND SCIENCE

VII. *Department of Mathematics*
31, 32 Analytical Mechanics
33, 34. Mathematics

VIII. *Department of Physics*
31, 32. Experimental Physics
33, 34. Analytical Mechanics
(*Advised elective*: 33, 34. Mathematics)

IX. *Department of Chemistry*
31, 32. Chemistry
33, 34. Chemistry

(*Requisite cognate course*: 31, 32. Physics)
(The free elective must be the Sophomore Mathematics, unless that course has been taken during the Sophomore year)

X. *Department of Geology*
31. Geology, and 32. Physical Geology
33. Mineralogy, and 34. Physical Geography
(*Requisite cognate course*: 31, 32. Biology)

XI. *Department of Biology*
31, 32. Biology
33, 34. Biology
(*Requisite cognate course*: Practical Chemistry through year)

The following Junior courses also fall under Division D, but are not included in any of the Departments of that Division.

31. Astronomy
31. Graphics
32. Geodesy
32 Graphical Statics

THE SENIOR YEAR

Each Senior must continue his studies in a Department in which he has satisfied the requirements of the Junior year, and must take three courses in that Department as indicated in the list of Senior courses. Or, in case three courses are not thus indicated, three of his courses must, in all cases, be in the Division in which his Department lies.

LIST OF COURSES OF SENIOR YEAR

[First term courses have odd numbers; second term courses have even numbers.]

A. DIVISION OF PHILOSOPHY

I *Department of Philosophy*
41, 42. Philosophy
43, 44. Philosophy
45, 46. Ethics

II. *Department of History, Politics, and Economics*
41, 42. History
43, 44. History
45, 46. Politics
47, 48. Politics
49, 50. Economics.

B. DIVISION OF ART AND ARCHÆOLOGY

III. *Department of Art and Archæology*
41, 42. Art and Archæology
43, 44. Art and Archæology
(*Requisite cognate course*: Classics or Italian through year)

C. DIVISION OF LANGUAGE AND LITERATURE

IV. *Department of Classics*
41, 42. Greek
43, 44. Greek
45, 46. Latin
47, 48. Latin

V *Department of English*
41, 42. English
43, 44. English

VIa. *Department of Modern Languages. Germanic Section*
41, 42. German
43, 44. German

VIb. *Department of Modern Languages. Romanic Section*
43, 44. Romanic Philology
{ Two of the three languages: }
{ 41, 42. French, 45, 46. Italian, 47, 48. Spanish }

D. DIVISION OF MATHEMATICS AND SCIENCE

VII. *Department of Mathematics*
41, 42. Mathematics
43, 44. Mathematics

VIII. *Department of Physics*
41, 42. Physics
43, 44. Physics

IX *Department of Chemistry*
41, 42. Chemistry
43, 44. Chemistry
45, 46. Chemistry

X. *Department of Geology*
41, 42. Historical Geology
43. Stratigraphical Geology, and 44. Physical Geography
45, 46. Paleontology, or 47, 48. Mineralogy

XI. *Department of Biology*
41, 42. Biology
43, 44. Biology

The following Senior courses are also offered, which are not included in any of the eleven Departments above:

48. History of Natural Philosophy (*falls in Divisions A and D*)
49, 50. Roman Law (*falls in Division A*)
41, 42. Sanskrit (*falls in Division C*)
43. 44. Semitics (*falls in Division C*)
45, 46. Biblical Literature (*falls in Division C*)
41, 42. Practical Astronomy (*falls in Division D*)
43. Celestial Mechanics (*falls in Division D*)
44, History of Astronomy (*falls in Division D*)
45, 46. Theory of Prime Motors (*falls in Division D*)

THE PRO-SEMINARIES

A pro-seminary will be established in some Departments for Seniors who are candidates for Final Special Honors. Each pro-seminary will be in charge of one instructor, who shall conduct a session of the pro-seminary at least one hour each week during the term or year.

The sessions of each pro-seminary will be devoted to the presentation and discussion of work prepared by the individual members of the pro-seminary.

TABLES SHOWING THE DEPARTMENTS IN DETAIL

I. Department of Philosophy

Open to candidates for the degrees of A.B. and Litt.B.

Advised Sophomore Elective

A foreign language

Junior Courses

31, 32. History of Philosophy (H)
33. Advanced Psychology (H), and 34. Advanced Logic (H)
A course from Division A (33, 34. Politics *advised*)
A course not in Division A
An elective

Senior Courses

41, 42. Philosophy
43, 44. Philosophy
45, 46. Ethics
An elective
An elective

II. Department of History, Politics, and Economics

Open to candidates for the degrees of A.B. and Litt.B.

Prerequisite Sophomore Course

History

Advised Sophomore Elective

A foreign language

Junior Courses

31, 32. History (H)
33, 34. Politics (H)
35, 36. Economics (H)
A course not in Division A
An elective (31, 32. History of Philosophy *advised*)

Senior Courses

{ Three courses in History, Politics, and Economics
An elective
An elective

III Department of Art and Archæology

Open to candidates for the degrees of A.B. and Litt.B.

Prerequisite Sophomore Courses

Elective Classics through the year for A.B.
Latin through the year for Litt.B.

Advised Sophomore Elective

A modern language

Junior Courses

31, 32. Art and Archæology (H)
33, 34. Art and Archæology (H)
A course in Classics (H) through the year
A modern language through the year
A course not in Division B (History of Philosophy *advised*)
An elective

Senior Courses

41, 42. Art and Archæology
43, 44. Art and Archæology
Classics or Italian through the year
An elective
An elective

IV. Department of Classics

Open to candidates for the degree of A.B.

Prerequisite Sophomore Course

Elective Classics through the year

Junior Courses

31, 32. Greek (H)
33, 34. Latin (H)
A course from Division C
A course not in Division C (History of Philosophy *advised*)
An elective

Senior Courses

Three courses in Latin and Greek
An elective
An elective

V. Department of English

Open to candidates for the degrees of A.B. and Litt.B.

Prerequisite Sophomore Courses

English for A.B.
Latin through the year and English } for Litt.B.

Advised Sophomore Electives

A foreign language for A.B.
A modern language for Litt.B.

Junior Courses

31, 32. English Literature (H)
33, 34. English Philology (H)
A course from Division C
A course not in Division C
An elective

Senior Courses

41, 42. English
43, 44. English
A course from Division C
An elective
An elective

VIa. DEPARTMENT OF MODERN LANGUAGES. GERMANIC SECTION

Open to candidates for the degrees of A.B. and Litt.B.

Prerequisite Sophomore Course

German through the year

Junior Courses

31, 32. German (H)
33, 34. English Philology (H)
A course from Division C
A course not in Division C
An elective

Senior Courses

41, 42. German
43, 44. German
A course from Division C
An elective
An elective

VIb. DEPARTMENT OF MODERN LANGUAGES. ROMANIC SECTION

Open to candidates for the degrees of A.B. and Litt.B.

Prerequisite Sophomore Courses

French through the year for A.B. and Litt.B.
Latin through the year for Litt.B.

Advised Sophomore Elective

Elective Classics for A. B.

Junior Courses

31, 32. French (H)
35, 36. Italian (H), or 37, 38. Spanish (H)
A course from Division C (Latin *advised*)
A course not in Division C
An elective

Senior Courses

43, 44. Romanic Philology
{ Two of the three languages:
{ 41, 42. French, 45, 46. Italian, 47, 48. Spanish
An elective
An elective

VII. Department of Mathematics

Open to candidates for the degrees of A.B. and B.S.

Prerequisite Sophomore Course

21, 22. Mathematics

Junior Courses

31, 32. Analytical Mechanics (H)
33, 34. Mathematics (H)
A course from Division D
A course not in Division D
An elective

Senior Courses

41, 42. Mathematics
43, 44. Mathematics
A course from Division D
An elective
An elective

VIII. Department of Physics

Open to candidates for the degrees of A.B. and B.S.

Prerequisite Sophomore Course

21, 22. Mathematics

Advised Sophomore Elective

Chemistry

Junior Courses

31, 32. Experimental Physics (H)
33, 34. Analytical Mechanics (H)
A course from Division D (33, 34. Mathematics *advised*)
A course not in Division D
An elective

Senior Courses

41 42. Physics
43, 44. Physics
A course from Division D
An elective
An elective

IX. Department of Chemistry

Open to candidates for the degrees of A.B. and B.S.

Prerequisite Sophomore Courses

Chemistry through the year
21, 22. Mathematics (may be taken in Junior year)

Junior Courses

31, 32. Chemistry (H)
33, 34. Chemistry (H)
31, 32. Physics
A course not in Division D
An elective (must be 21, 22. Mathematics, unless that course has been taken in Sophomore year)

Senior Courses

41, 42. Chemistry
43, 44. Chemistry
45, 46. Chemistry
An elective
An elective

X. Department of Geology

Open to candidates for the degrees of A. B. and B. S.

Prerequisite Sophomore Course

Chemistry through the year

Advised Sophomore Elective

A modern language

Junior Courses

31, 32. Geology (H)
33. Mineralogy, and 34. Physical Geography (H)
31, 32. Biology
A course not in Division D
An elective

Senior Courses

41, 42. Historical Geology
43. Stratigraphical Geology, and 44. Physical Geography
45, 46. Paleontology, or 47, 48. Mineralogy
An elective
An elective

XI. DEPARTMENT OF BIOLOGY

Open to candidates for the degrees of A.B. and B.S

Prerequisite Sophomore Course

Chemistry through the year

Advised Sophomore Elective

A modern language

Junior Courses

31, 32. Biology (H)
33, 34. Biology (H)
Practical Chemistry through the year
A course not in Division D
An elective

Senior Courses

41, 42. Biology
43, 44. Biology
A course from Division D
An elective
An elective

In the above statements of the Departments the courses in the Junior year which are marked with (H) are the courses central to the Department in which a Junior must maintain a standing not below the second group in order to be a candidate for Final Special Honors.

DEPARTMENT OF CIVIL ENGINEERING

The Course of Study

The course in civil engineering is designed to fit its graduates for entering the profession of civil engineering. The degree conferred at its close on successful candidates is Civil Engineer (C. E.). The regular course of study occupies four years, but applicants who are found to be suitably prepared are admitted to advanced standing. Bachelors of Arts, of Letters, or of Science of Princeton University, who while undergraduates have pursued suitable elective studies can ordinarily be prepared for the civil engineer's degree by a two-years' course in the technical studies required for that degree.

In arranging the course in civil engineering care has been taken to give the student the benefit of as much general training in the earlier years as the claims upon his time made by his later technical studies will permit. Accordingly a large proportion of his time in the Freshman and Sophomore years is devoted to studies which are pursued in common with candidates for the Bachelors' degrees.

A very large proportion of the strictly technical studies of the course cannot be profitably pursued without a thorough previous preparation in mathematics; especial attention is therefore given in the earlier part of the course to imparting to the students in civil engineering a sound working knowledge of the ordinary divisions of that science, inclusive of analytical mechanics, and a high degree of proficiency therein is exacted from all candidates for the degree of C. E. (See Department of Mathematics, courses 11, 12, 15, 16, 21, 22, 23, 24, 31, 32.)

Great stress is also laid in this course on the study of graphics as a science as well as an art, both in its general development and in its application to the practice of de-

signers and builders. For convenience, it has been separated into two distinct divisions, *viz.* :

A. Defined in detail under the courses entitled Graphics (under Department of Civil Engineering, on a later page), and comprising all branches of the study, including descriptive geometry and its applications, which are usually grouped under the general heading, geometrical or mechanical drawing. At its conclusion the student will have been trained to execute general and working drawings of structures, to prepare patterns or templates for the shaping of structural details, to make working and finished drawings of machines, and to trace graphically and lay out mechanical movements, such as link-and-valve motions, etc.

B. Defined in detail in the courses entitled Geodesy (under Department of Civil Engineering, on a later page), and consisting of those branches of the art which are closely associated with surveying, and generally known as map drawing or topographical drawing, the object of which is to make the student expert in the execution, in pen work and colors, of finished plans and maps of various kinds of surveys. Except in the necessary preliminary drill these drawings invariably represent actual surveys made by the different classes. A rigid adherence to field notes and a high degree of finish are exacted in their execution.

The study of surveying and engineering field work is provided for in the different subdivisions of the course of study in geodesy (see courses in geodesy, under Department of Civil Engineering, on a later page.) The structure, adjustment, and use of each instrument are made subjects of special attention, and no student is allowed to participate in any extended field operation until he has acquired a certain dexterity in handling the instruments used therein. The instruction in geodesy extends through different kinds of surveys, in the order of their complexity, and ends in location surveys of lines of communication, staking out for construction in general, and problems of railway terminals

and yard work. A special feature of the course in geodesy is the stress laid on the orderly collection and verification of field notes by each student, and on their appropriate use in the preparation of different kinds of plans, maps, and charts of surveys. No error is allowed in field work or in plotting which is not within the limits observed in practice.

During the two weeks immediately following the close of the second term of the Junior year, the Junior class in civil engineering engage in the field work of extended surveys in some locality selected by the Professor of Geodesy. All regular members of the class are required to attend these exercises.

The remaining strictly technical studies of the course in civil engineering, given by name on succeeding pages, may be grouped under the headings, applied mechanics, constructions, and laboratory practice.

The first group covers a wide range of studies comprising graphical statics, theoretical and practical hydraulics, the elasticity and strength of materials, the stability and pressures of earthen masses and of foundations, the stability of block structures and of steel-concrete structures, the strength of girders and of framed structures, the theory of the draw bridge, the suspension bridge, the cantilever bridge, and of metallic arches, the general theory of motors, and the theory of water wheels, of steam engines and gas engines. In dealing with the theories of these subjects rigid mathematical treatment is generally used, yet proper weight is given to graphical methods of analysis and the student's attention is especially directed to those problems in which such methods can be employed with advantage. The practical application of the above subjects also receives proper attention and is illustrated in some cases by drawings, in others by models, and in still others almost entirely by regular exercises in the Civil Engineering Laboratory.

The second group, namely constructions, comprises those technical studies which are largely descriptive of the

planning and construction of engineering works. These subjects begin with the study of the physical properties of structural materials, with the aid of laboratory exercises, and advance to the study of the design and construction of foundations under various conditions of difficulty; then to the erection of bridges and other structures, and the consideration of the auxiliaries needed therefor; to the planning and construction of water works under different conditions as to kind and quality of supply; the design and construction of sewerage and drainage systems, including modes of disposal and purification of sewage; and the construction of roads, streets, etc. Great stress is laid on the application of correct rules and principles, on the careful inspection, manipulation, and preservation of materials, and on the economic features of various designs and the modes of executing them.

An important feature of this part of the course consists of excursions for the examination of rolling mills, bridge works, machine shops, water works, etc. In these visits the class is accompanied by one of the professors in charge, and every member of the party is required to make full notes of his observations and of the instruction received during the trip.

The position of the third group of exercises, namely laboratory practice, in the course of study, as well as its purpose, will be inferred from the preceding explanations. (See also Civil Engineering Laboratory, on a later page.)

As one of the conditions of being recommended for the degree of Civil Engineer each candidate for the degree is required to prepare and submit for the approval of a professor, appointed in each case by the Department, a graduation thesis. This shall be a design or review of some structure, machine, or process, or a theoretical and practical examination and extension of some work or subject selected from the technical studies of the Department. The subject of the graduation thesis must be announced for

approval to the professors of the Department, not later than the first Monday in March (second term, Senior year); and the thesis must be completed on or before the second Saturday preceding Commencement.

The following is a synopsis of the course in civil engineering. *All studies are required.*

The Freshman Year

First Term	Hours a week	*Second Term*	Hours a week
English	2	English	2
Two of the three subjects, Physics, French, and German	6	Two of the three subjects, Physics, French, and German	6
Mathematics	4	Mathematics	4
Chemistry	3	Chemistry	3
Graphics	2	Geodesy	2
Total	17	Total	17

The Sophomore Year

First Term	Hours a week	*Second Term*	Hours a week
General Physics	3	General Physics	3
Mathematics (21)	3	Mathematics (22)	3
Mathematics (23)	2	Mathematics (24)	2
Mineralogy	3	Geology	3
Graphics	3	Graphics	3
Geodesy	3	Geodesy	3
Total	17	Total	17

The Junior Year

First Term	Hours a week	*Second Term*	Hours a week
Analytical Mechanics	3	Analytical Mechanics	3
General Astronomy	3	Practical Astronomy	2
Graphical Statics	3	Mechanics of Materials	4
Geodesy	4	Geodesy	5
Graphics	2	Graphics	3
Materials of Construction	2		
Total	17	Total	17

The Senior Year

First Term	Hours a week	*Second Term*	Hours a week
Framed Structures	5	Framed Structures	3
Prime Motors	3	Prime Motors	3
Hydraulics	2	Water Works	2
Graphics	2	Sewerage and Drainage	2
Geodesy	3	Roads	2
Laboratory	2	Masonry Structures	2
		Methods of Construction	2
		Laboratory	1
Total	17	Total	17

PART V

DEPARTMENTS OF THE UNIVERSITY

ACADEMIC DEPARTMENT

FACULTY

WOODROW WILSON, PH.D., LITT.D., LL.D., *President, McCormick Professor of Jurisprudence and Politics.*

FRANCIS LANDEY PATTON, D.D., LL.D., *Ex-President, Stuart Professor of Ethics and the Philosophy of Religion.*

HENRY BURCHARD FINE, PH.D., *Dean of the Faculty, Dod Professor of Mathematics.*

ANDREW FLEMING WEST, PH.D., LL.D., HON. D.LITT. (Oxon.), *Dean of the Graduate School, Giger Professor of Latin.*

HENRY CLAY CAMERON, PH.D., D.D., *Professor of Greek Language and Literature, Emeritus.*

WILLIAM ALFRED PACKARD, PH.D., D.D., *Professor of Latin, Emeritus.*

S. STANHOPE ORRIS, PH.D., L.H.D., *Professor of Greek Language and Literature, Emeritus.*

THEODORE WHITEFIELD HUNT, PH.D., L.H.D., *Professor of English.*

SAMUEL ROSS WINANS, PH.D., *Professor of Greek and Instructor in Sanskrit.*

ALLAN MARQUAND, PH.D., L.H.D., *Professor of Art and Archæology.*

ALEXANDER THOMAS ORMOND, PH.D., LL.D., *McCosh Professor of Philosophy.*

JOHN HOWELL WESTCOTT, PH.D., *Musgrave Professor of Latin and Tutor in Roman Law.*

GEORGE MCLEAN HARPER, PH.D., *Holmes Professor of Belles Lettres and English Language and Literature.*

WINTHROP MORE DANIELS, A.M., *Professor of Political Economy*

JOHN GRIER HIBBEN, PH.D., *Stuart Professor of Logic.*

PAUL VAN DYKE, D.D., *Professor of History.*

HENRY VAN DYKE, D.D., LL.D., *Murray Professor of English Literature.*

EDWIN SEELYE LEWIS, PH.D., *Professor of Romance Languages.*

GEORGE STEVENSON PATTON, A.M., *Professor of Moral Philosophy.*

HOWARD CROSBY WARREN, A.M., *Professor of Experimental Psychology.*
THOMAS MARC PARROTT, PH.D., *Professor of English.*
EDMUND YARD ROBBINS, A.M., *Professor of Greek.*
JESSE BENEDICT CARTER, PH.D., *Professor of Latin.*
HARRY AUGUSTUS GARFIELD, A.B., *Professor of Politics.*
WILLIAMSON UPDIKE VREELAND, D. ÈS L., *Professor of Romance Languages.*
FRANK THILLY, PH.D., *Stuart Professor of Psychology.*
STOCKTON AXSON, A.M., *Professor of English.*
JOHN HAUGHTON CONEY, A.M., *Professor of History.*
WILLIAM KELLY PRENTICE, PH.D., *Professor of Greek*
HAMILTON FORD ALLEN, PH.D., *Professor of Latin.*
HOWARD CROSBY BUTLER, A.M., *Professor of Art and Archæology.*
JOHN PRESTON HOSKINS, PH.D., *Assistant Professor of German.*
WALTER AUGUSTUS WYCKOFF, A.M., *Assistant Professor of Political Economy.*
HARRY FRANKLIN COVINGTON, A.M., *Assistant Professor of English.*
ROBERT MCNUTT MCELROY, PH.D., *Clerk of the Faculty, Assistant Professor of American History.*
MAX FRIEDRICH BLAU, PH.D., *Assistant Professor of German.*
LUCIUS HOPKINS MILLER, A.M., *Assistant Professor of Biblical Instruction.*
ROGER BRUCE CASH JOHNSON, PH.D., *Earl Dodge Preceptor in Philosophy.*
ADAM LEROY JONES, PH.D., *Preceptor in Philosophy.*
WALTER TAYLOR MARVIN, PH.D., *Preceptor in Philosophy.*
WILMON HENRY SHELDON, PH.D., *Preceptor in Philosophy.*
EDWARD GLEASON SPAULDING, PH.D., *Preceptor in Philosophy.*
HIRAM BINGHAM, PH.D., *Robert Stockton Pyne Preceptor in History, Politics, and Economics.*
ERNEST LUDLOW BOGART, PH.D., *Preceptor in History, Politics, and Economics.*
EDWARD SAMUEL CORWIN, PH.D., *Preceptor in History, Politics, and Economics.*
EDWARD GRAHAM ELLIOTT, PH.D., *Robert Stockton Pyne Preceptor in History, Politics, and Economics.*
CHARLES HOWARD MCILWAIN, A.M., *Preceptor in History, Politics, and Economics.*
ROYAL MEEKER, B.SC., *Preceptor in History, Politics, and Economics.*
HENRY ROBINSON SHIPMAN, PH.D., *Preceptor in History, Politics, and Economics.*

CHARLES WORTHEN SPENCER, PH.D., *Preceptor in History, Politics, and Economics.*
OLIVER SAMUEL TONKS, PH.D., *Preceptor in Art and Archæology.*
ANDREW RUNNI ANDERSON, PH.D., *Preceptor in Classics.*
JOHN WILLIAM BASORE, PH.D., *Preceptor in Classics.*
DONALD CAMERON, PH.D., *Preceptor in Classics.*
HAROLD RIPLEY HASTINGS, A.M., *Preceptor in Classics.*
FRED LEROY HUTSON, A.B., *Preceptor in Classics.*
GEORGE DWIGHT KELLOGG, PH.D., *Preceptor in Classics.*
DONALD ALEXANDER MACRAE, PH.D., *Preceptor in Classics.*
DAVID MAGIE, JR., PH.D., *William Alfred Packard Preceptor in Classics.*
EDWIN MOORE RANKIN, PH.D., *Preceptor in Classics.*
DUANE REED STUART, PH.D., *Preceptor in Classics.*
LARUE VAN HOOK, PH.D., *Preceptor in Classics.*
HARDIN CRAIG, PH.D., *Edgerstoune Preceptor in English.*
GORDON HALL GEROULD, B.LITT., *John Rutherfurd Preceptor in English.*
NATHANIEL EDWARD GRIFFIN, PH.D., *Preceptor in English.*
AUGUSTUS WHITE LONG, A.M., *Preceptor in English.*
FRANCIS CHARLES MACDONALD, A.B., *Preceptor in English.*
CHARLES GROSVENOR OSGOOD, JR., PH.D., *Preceptor in English.*
ROBERT KILBURN ROOT, PH.D., *Preceptor in English.*
JOHN DUNCAN SPAETH, PH.D., *Preceptor in English.*
DOUGLAS LABAREE BUFFUM, PH.D., *Preceptor in Modern Languages.*
FRANK LINLEY CRITCHLOW, PH.D., *Preceptor in Modern Languages.*
CHRISTIAN GAUSS, A.M., *Preceptor in Modern Languages.*
WILLIAM KOREN, A.M., *Preceptor in Modern Languages.*
ALFRED AUSTIN MOORE, A.B., *Preceptor in Modern Languages.*
GEORGE TYLER NORTHUP, A.B., *Preceptor in Modern Languages.*
GEORGE MADISON PRIEST, A.M., *Preceptor in Modern Languages.*
HARVEY WATERMAN THAYER, PH.D., *Preceptor in Modern Languages.*

INSTRUCTORS

ENNO LITTMANN, PH.D., *Lecturer in Semitic Philology.*
PHILIP HOWARD FOGEL, PH.D., *Instructor in Philosophy.*
MORTIMER PHILLIPS MASON, PH.D., *Instructor in Philosophy.*
JOHN EDWARD WALLACE WALLIN, PH.D., *Instructor in Philosophy.*
ARTHUR CROSBY LUDINGTON, A.B., *Instructor in Jurisprudence and Politics.*

CHARLES HODGE JONES, A.B., *Instructor in Classics.*
CHARLES RUFUS MOREY, A.M., *Instructor in Classics.*
WILLIAM HARRY CLEMONS, A.M., *Instructor in English.*
MORRIS WILLIAM CROLL, PH.D., *Instructor in English.*
LOUIS WARDLAW MILES, PH.D., *Instructor in English.*
DANIEL LINDSEY THOMAS, PH.D., *Instructor in English.*
BAYARD TUCKERMAN, A.B., *Lecturer on English Literature.*
HERBERT DOUGLAS AUSTIN, A.M., *Instructor in Modern Languages*
JACOB NEWTON BEAM, PH.D., *Instructor in Modern Languages.*
CHARLES EDWARD LYON, PH.D., *Instructor in Modern Languages.*
CHARLES EUGLEY MATHEWS, A.B., *Instructor in Modern Languages.*
ALFRED ERNEST RICHARDS, PH.D., *Instructor in Modern Languages*

COURSES OF INSTRUCTION

A. DIVISION OF PHILOSOPHY

I. DEPARTMENT OF PHILOSOPHY

EX-PRESIDENT PATTON, PROFESSORS ORMOND, HIBBEN, G. S. PATTON, WARREN, THILLY, JOHNSON, JONES, MARVIN, SHELDON, AND SPAULDING; DR. WALLIN, DR. FOGEL, AND MR. MASON

21. Logic. *Hibben*: Logic. Sophomore required course, first term, 3 hours a week. Professor Hibben.
22. Psychology. Sophomore required course, second term, 3 hours a week. Professor Thilly.
31. History of Philosophy. This course includes, (1) Greek and Roman philosophy to close of paganschools, (2) Mediæval philosophy to fall of scholasticism and beginning of the modern era. *Zeller:* Outlines; *Erdmann; Windelband.* Junior course, first term, 3 hours a week. Prerequisite to History of Philosophy of second term, and Epistemology and Metaphysics of Senior year. Professor Ormond.
32. History of Philosophy. This course includes, (1) Modern philosophy from Descartes to Kant, (2) Post-Kantian philosophy. *Falkenberg:* History of Modern Philosophy. Junior course, second term, 3 hours a week. Prerequisite course: History of Philosophy of first term. Prerequisite to Epistemology and Metaphysics. Professor Ormond.
33. Advanced Psychology. Junior course, first term, 3 hours a week. Professor Thilly.

34. Advanced Logic. Theory of logic and theory of probability. *Bosanquet:* Essentials of Logic. Reference books: *Lotze, Sigwart, Mill.* Junior course, second term, 3 hours a week. Professor Hibben.

41, 42. Outlines of Philosophy. This course includes, (1) Epistemology or doctrine of knowledge, (2) Metaphysics or theory of reality. *Ormond:* Foundations of Knowledge; *McCosh:* First and Fundamental Truths. Senior course, both terms, 3 hours a week. Prerequisite course: History of Philosophy. Professor Ormond.

43. Experimental Psychology. Scope and methods of experimental investigation of mental processes. Psycho-physical methods; analysis of sensation, with study of the common senses; contrast, sensory fatigue, habit, etc.; the special senses; space perception and visual illusions; memory, association and thought; feeling and its measure; reaction and general psychology of movement. *Sanford:* Course in Experimental Psychology. Reference books: *Wundt, Ladd, Külpe, Titchener, James, Baldwin, Scripture.* Senior course, first term, 3 hours a week. Prerequisite to the proseminary in Experimental Psychology. Professor Warren.

44. Philosophy of the Eighteenth Century. Development of philosophical thought from Locke to Kant, covering the Aufklärung in England, France, Germany. Senior course, second term, 3 hours a week. Prerequisite course: History of Philosophy. Professor Hibben.

45. Types of Ethical Theory. Lectures on the history of ethics and types of ethical theory with critical study of representative authors. Senior course, first term, 3 hours a week. Professor George S. Patton.

46. Fundamental Ethical Concepts. Lectures and conferences based on critical reading of selected authors.

Senior course, second term, 3 hours a week. Ex-President Patton and Professor George S. Patton.

THE PRO-SEMINARY IN PHILOSOHPY. In charge of Professor Ormond. Reading of masterpieces in modern philosophy with theses. Professor Ormond and Dr. Fogel.

Experimental Psychology. Practical demonstrations in the laboratory of typical experimental investigations, with drill in the methods of calculating and treating results. *Sanford:* Course in Experimental Psychology; *Titchener:* Experimental Psychology. Reference books: *Wundt, Külpe, Jastrow, Stratton, Witmer, Scripture.* Pro-seminary open only to those who are qualified for honors, both terms. Prerequisite course: Experimental Psychology, Calculus (advised). Prerequisite to the graduate work in the psychological laboratory. Professor Warren and Dr. Wallin.

101, I. Negative Theories of Knowledge. Graduate course, first term, 3 hours a week. (Given 1906-1907.) Lectures and readings. Professor Ormond.

101, II. Kant, Lotze, and Contemporaneous Philosophy. Graduate course, first term, 3 hours a week. (Given 1905-1906.) Lectures, reading, and conferences. Professor Ormond.

102, I. Encyclopedia of Philosophy. Graduate course, second term, 3 hours a week. (Given 1906-1907.) Lectures and readings. Professor Ormond.

102, II. Philosophical Aspects of Evolution and Heredity. Graduate course, second term, 3 hours a week. (Given 1905-1906.) Professor Ormond.

103, 104. Experimental Psychology. Laboratory course,

consisting largely in research work, with weekly conference for original reports; open to all qualified graduate students. Graduate course, both terms, 3 hours a week. Professor Warren.

105, 106. Seminary in General Philosophy. Topic for the year: Hobbes and Spinoza. Conducted by reading, theses, and discussions. Graduate course, both terms. Professor Ormond.

107, 108. Psychological Seminary. Topic to be determined in consultation with class; open to graduate students who satisfy the professor of their competence; limited to twelve men studying for advanced degrees. Not given for less than five men. Graduate course, both terms. Professor Warren or Professor Thilly.

109. Theory of Mental Measurements. Graduate course, first term, 3 hours a week. Professor Warren.

111, 112. Reading in German Philosophy. Graduate course, both terms, 3 hours a week. *Hegel's* Logik. Professor Hibben.

113, I. History of English Ethics. Graduate course, first term, 3 hours a week. (Given 1905-1906.) Professor G. S. Patton.

114, I. Problems in Contemporary Ethics. Graduate course, second term, 3 hours a week. (Given 1905-1906.) Professor G. S Patton.

113, II. Hedonism and the Ethics of Naturalism. Graduate course, first term, 3 hours a week. (Given 1906-1907.) Professor G. S. Patton.

114, II. Self-realization and the Ethics of Idealism. Graduate course, second term, 3 hours a week. (Given 1906-1907.) Professor G. S. Patton.

115. The Philosophy of the Mind. The problem of consciousness in its metaphysical and epistemological bearings. Graduate course, first term, 3 hours a week. Professor Thilly.

II. DEPARTMENT OF HISTORY, POLITICS AND ECONOMICS

THE PRESIDENT, PROFESSORS DANIELS, PAUL VAN DYKE, GARFIELD, CONEY, WYCKOFF, MCELROY, BINGHAM, BOGART, CORWIN, ELLIOTT, MCILWAIN, MEEKER, SHIPMAN, AND SPENCER; AND MR. LUDINGTON

21. General History. A general sketch of the chief events and movements of European history, from the Barbarian Invasion to the Franco-Prussian War. Recitations, informal lectures, readings, and tests. *Robinson:* History of Western Europe. Sophomore elective, first term, 3 hours a week. Prerequisite to the History courses in Junior and Senior years. (This course will not be conducted under the preceptorial system in 1905-1906.) Professors Paul van Dyke, Coney, and McElroy.

31. Mediæval History. The establishment of the kingdom of the Franks, the extension of the Christian church and the conflict between papacy and empire. Lectures and required reading. Junior course, first term, 3 hours a week. Prerequisite course: General History of Sophomore year. Professor Coney.

32. Mediæval History. The growth of the French monarchy from the close of the Carolingian period to the end of the fifteenth century. Lectures and required reading. Junior course, second term, 3 hours a week. Prerequisite course: General History of Sophomore year. Professor Coney.

33. Elements of Jurisprudence. Outlines of jurisprudence. An exposition of jurisprudence as an organic whole, exhibiting the nature of its subject-matter, its relationship to cognate branches of study, the inter-relationship of its several parts to each other,

and their proper function and aim. Lectures and collateral reading. *T. E. Holland:* Elements of Jurisprudence; *Sir W. Markby:* Elements of Law; *Sir H. S. Maine:* Ancient Law; and *E. Jenks:* Law and Politics in the Middle Ages. Junior course, first term, 3 hours a week. The President.

34. Constitutional Government. The genesis, nature, and operation of constitutional government, with especial reference to the political institutions of England and the United States. *W. Wilson:* The State; *E. Boutmy:* English Constitution; *A. V. Dicey:* The Law of the Constitution; *W. Bagehot:* The English Constitution; *W. Wilson:* Congressional Government. Junior course, second term, 3 hours a week. The President.

35, 36. Elements of Economics. This course will comprise the essential elements of the abstract theory of economics and some of the more essential applications and exemplifications of the theory, such as money, banking, transportation, international trade, and monopoly problems. There will be regularly one lecture a week, and two conferences to test the student's apprehension of the subject matter covered in the reading. These conferences will be with the preceptors and small groups of students, not exceeding five to a group. *Fetter:* Principles of Economics. Reference books: *Dunbar:* Banking; *Acworth:* Railway Rates; and *Jenks:* Trust Problem. Junior course, both terms, 3 hours a week. Prerequisite course: Sophomore History. Prerequisite to Public Finance and General Social Theory. Professor Daniels and Professor Wyckoff.

41, 42. History. The Three English Revolutions. An account of the establishment and fall of the Commonwealth, the Glorious Revolution of 1688, and the

American Revolution; their resemblances and contrasts. Lectures, with collateral reading and tests. Senior course, both terms, 3 hours a week. Prerequisite course: Sophomore Elective History. Professor Paul van Dyke.

43. American History to the Fall of the Federalist Party. An account of the discovery of the continent, the growth of colonial institutions, the development of concerted action among the colonies, and the establishment of the federal government. Lectures dealing with selected topics; text book covering the entire period; and extensive collateral reading. Senior course, first term, 3 hours a week. Prerequisite course: Sophomore Elective History. Professor McElroy.

44. American History since the Fall of the Federalist Party. An account of the development and expansion of the United States. Lectures dealing with selected topics; text-book covering the entire period; and extensive collateral reading. Senior course, second term, 3 hours a week. Prerequisite course: Sophomore Elective History. Professor McElroy.

45. Politics. Government of Dependencies. An examination of the theory of relations between dominant and dependent countries, and of the administrative methods employed in the government of colonies and kindred political communities, with special reference to the American problems. Lectures and collateral reading. Books read 1905-1906: *Woodward:* Expansion of the British Empire; *Ireland:* The Far Eastern Tropics; *Reinsch:* Colonial Government; *Day:* Java. Senior course, first term, 3 hours a week. Prerequisite course: Sophomore History. Professor Garfield.

46. Politics. Government by Party. An examination

of present political conditions and methods, an inquiry into their causes, and discussions of the problems arising therefrom. Lectures, collateral reading, and discussions. Reference books: *Ford:* American Politics; *Ostrogorski:* Democracy; *Bryce:* American Commonwealth. Senior course, second term, 3 hours a week. Prerequisite course: Sophomore History. Professor Garfield.

47. Politics. International Law. A discussion of the general principles with their application to some current and disputed questions. Text-book: *Hall:* A Treatise on International Law. Senior course, first term, 3 hours a week. Professor Elliott.

48. Politics. Modern Political Theories. A history of modern political theories with special attention to American political theories and their sources. *Hobbes:* Leviathan; *Locke:* On Civil Government; *Montesquieu:* The Spirit of the Laws; *Rousseau:* The Social Contract; The Federalist. Only selected portions of these books will be required. Text-book: *Merriam:* American Political Theories. Senior course, second term, 3 hours a week. Professor Elliott.

49. Economics. Public Finance. This course will cover the theory and history of public finance. The historical part of the course will deal mainly with the financial history of the United States. Lectures with weekly conferences. *Daniels:* Public Finance. Reference books: *Dewey:* Financial History of the United States; *Adam Smith:* Wealth of Nations, Book V; *H. C. Adams:* Finance. Senior course, first term, 3 hours a week. Prerequisite courses: Sophomore History and Junior Elements of Economics. Professor Daniels.

50. Economics. Social Theory. The course will cover the development of theories of social reconstruction

with special reference to modern socialism and anarchy. *Rae:* Contemporary Socialism. Reference books: *Webb:* Industrial Democracy; *Hobson:* Evolution of Modern Capitalism. Senior course, second term, 3 hours a week. Prerequisite courses: Sophomore History and Junior Economics. Professor Wyckoff.

THE PRO-SEMINARY. In the Department of History, Politics, and Economics there will be a pro-seminary both terms; the pro-seminary to be divided into sections, one for history, one for politics, and one for economics. Admission to the pro-seminary will be conditioned upon a student's obtaining in the Junior year courses in the Department the standing prescribed for entrance upon pro-seminary work. Professor Garfield will be the director general of the pro-seminary, and will take special charge of the pro-seminary section in politics. Professors Paul van Dyke and McElroy will conduct the historical section, and Professors Wyckoff and Daniels the economic section.

108, I. The Private Law Orations of Cicero (Classics 108, I). Graduate course, second term, 3 hours a week, alternating with 108, II. Professor Westcott.

108, II. Sources of Early Roman Law (Classics 108, II). Graduate course, second term, 3 hours a week, alternating with 108, I. Professor Westcott.

109. Genesis of Industrial Order. An ethnological study of industry, including the earliest forms of the division of labor, the domestication of animals and plants, the rise of slavery, the use of money, etc. The class will meet in the Seminary room and the writing and criticism of theses will constitute the basis of the course.

Graduate course, first term, 3 hours a week. Professor Wyckoff.

110. Advanced Economic Theory. An exposition of economic theory, historical and dogmatic. Seminary course for competent graduates, designed to supplement and continue course 109. Hours to be arranged with the instructor. Graduate course, second term, hours a week. Professor Daniels.

B. DIVISION OF ART AND ARCHÆOLOGY

III. DEPARTMENT OF ART AND ARCHÆOLOGY

PROFESSORS MARQUAND, BUTLER, AND TONKS

31. History of Ancient Sculpture. A general outline of the history of ancient Egyptian, Chaldean, Assyrian, Persian, Greek, and Roman Sculpture. Reference books: *Maspero:* Egyptian Archæology; *Babelon:* Manual of Oriental Antiquities; *Tarbell:* Greek Art. Junior course, first term, 3 hours a week. Professors Marquand and Tonks.

32. History of Mediæval Art. A general outline of the history of early Christian and Byzantine, Mediæval and Renaissance sculpture. Reference books: *Marquand and Frothingham:* A history of Sculpture; *Perkins:* Historical Handbook of Italian Sculpture. Junior course, second term, 3 hours a week. Professor Marquand.

33. Ancient Architecture. A course in the history of Egyptian, Assyrian, Persian, Greek, and Roman architecture. Two hours of lectures and one of historical drawing. Reference books: *Hamlin*: History of Architecture; *Sturgis:* European Architecture. Junior course, first term, 3 hours a week. Prerequisite to 43, 44 Elements of Architecture. Professor Butler.

34. Mediæval Architecture. The history of early Christian, Byzantine, Romanesque, and Gothic architecture. Two hours of lectures and one of historical drawing. Reference books: *Hamlin:* History of Architecture; *Sturgis:* European Architecture. Junior course, second term, 3 hours a week. Prerequisite to 43, 44 Elements of Architecture. Professor Butler.

41. History of Greek Sculpture. A study of the technique, forms, composition, and history of Greek sculpture. *Gardner:* Handbook of Greek Sculpture. Senior course, first term, 3 hours a week. Professors Marquand and Tonks.

42. Renaissance Painting. A study of the technique, subjects, compositions, and historical relations of Italian Renaissance painting. Senior course, second term, 3 hours a week. Professor Marquand.

43, 44. Elements of Architecture. The classic orders, studied in their historical development, from reproductions of the ancient monuments, from the text of *Vitruvius*, and from the works of *Vignola*. This course includes drawing to scale, with shades and shadows, and exercises in historical design. *Ware:* The American Vignola; *Tuckerman:* Vignola. Senior course, both terms, 3 hours a week. Prerequisite course: 33 Ancient Architecture. Professor Butler.

101. Greek Architecture. This course will consist of a critical study of *Vitruvius'* De Architectura. Graduate course, first term, 3 hours a week. Professor Marquand.

102. Gothic Architecture. A study of the development and spread of Gothic architecture in the various countries of Europe. Graduate course, second term, 3 hours a week. Professor Marquand.

103, 104. Christian Architecture. A practical study of ecclesiastical architecture from the fourth century to the twelfth, including the subjects of the construction, design, and details of the early Christian, Byzantine, and Romanesque periods, with exercises in drawing. Requires elementary knowledge of the history of Christian art and Mediæval history, and ability to read French. Graduate course, both terms, 3 hours a week. Professor Butler.

106. Renaissance Architecture. A practical study of the architecture of the Renaissance in Europe, with exercises in design. Requires knowledge of the elements of architecture; of shades, shadows, and perspective; and ability to read French. Graduate course, second term, 3 hours a week. Professor Butler.

C. DIVISION OF LANGUAGE AND LITERATURE

IV. DEPARTMENT OF CLASSICS

PROFESSORS PACKARD, AND WINANS, DEAN WEST, PROFESSORS WESTCOTT, ROBBINS, CARTER, ALLEN, PRENTICE, ANDERSON, BASORE, CAMERON, HASTINGS, HUTSON, KELLOGG, MACRAE, MAGIE, RANKIN, STUART, AND VAN HOOK; MR. JONES, AND MR. MOREY

11. Lysias. The Greek text will be used as a basis for a study of Greek idiom and syntax, and for the acquisition of the vocabulary necessary to pursue with profit the subsequent courses in this Department. Practical exercises in writing Greek will also be given. *Morgan:* Lysias; *Allison:* Greek Prose Composition. Freshman course, required of candidates for the degree of A.B., first term, 2 hours a week. Professor Prentice,

12. Herodotus. Selections and sight reading. Freshman course, required of candidates for the degree of A.B., second term, 2 hours a week. Professor Robbins.

13. Xenophon: Hellenica. In this course the strictest attention will be paid both to the meaning of individual words and phrases and to the historical content of the chapters read. Some account will be given of this epoch of Greek history, and as much time as possible will be devoted to reading simple prose Greek at sight. *Blake:* Hellenica; *Bury:* History of Greece. Freshman course, required of candidates for the degree of A.B., first term, 2 hours a week. Professor Prentice.

14. Homer: selected portions of the Odyssey. Epic forms and syntax; features of structure and style. Freshman course, required of candidates for the degree of A.B., second term, 2 hours a week. Professor Winans.

15. Livy and Latin Prose Composition. The greater part of the first and a large part of the twenty-first and twenty-second books will be studied both as history and as Latin, one-quarter of the time being devoted to exercises in prose composition based upon portions of the text read. *Westcott:* Livy, Books I, XXI, and XXII. Freshman course, required of all candidates for the degrees of A.B., Litt.B., and B.S., first term, 4 hours a week. Professor Westcott.

16. Roman Comedy, Cicero's Letters, and Roman History. One-half of the time will be devoted to the study of selected comedies of Plautus and Terence; one-quarter to colloquial Latin as represented in selected letters of Cicero; and one-quarter to a survey of Roman history from the founding of the city. Freshman course, required of all candidates for the degrees of A.B., Litt.B., and B.S., second term, 4 hours a week. Professor Allen.

21. Greek Drama: Aristophanes and Euripides. Selected plays. Lectures on the development of the drama, on the presentation of plays, on the authors and their works. Sophomore course, required of candidates for the degree of A.B., first term, 3 hours a week. Professor Winans.

22. Lucian. Selected dialogues, illustrative of the life and thought of the second century A.D. Brief account of the later Greek literature. Sophomore course, elective for candidates for the degree of A.B., second term, 3 hours a week. Professor Prentice.

23. Sophomore Elective Latin (A). Reading of prose

literature of the Silver Age, as represented in Tacitus, Pliny the Younger, and Suetonius, with incidental study of the political and social life of their time. *Tacitus:* Agricola and Germania; *Pliny:* Letters; *Suetonius:* Lives of Julius and Augustus. Sophomore course, elective for all candidates for the degrees of A.B., Litt.B., B.S., first term, 3 hours a week. Prerequisite to the following courses: Classics, Archæology. Professor Westcott.

24. Horace and Catullus. *Horace:* Odes and Satires; *Catullus:* Selections. Sophomore required for A.B., required alternative for Litt.B. and B.S., second term, 3 hours a week. Dean West.

25. Sophomore Elective Latin (B), substitute for A, Honor Course. The period of the Civil Wars, 49-31 B.C., and the reigns of Tiberius and Augustus —studied in Cæsar, Suetonius, and Tacitus. Each member of the class required to write one historical paper and to edit an inscription from the Corpus Inscriptionum Latinarum. *Cæsar:* Civil War; *Suetonius:* Julius and Augustus; *Tacitus:* Annals; *Egbert:* Latin Inscriptions. Restricted Sophomore Elective for A.B., first term, 3 hours a week. Professor Westcott.

31. Plato. One or more short dialogues entire, with substantial portions of others: Protagoras, Phædo, Phædrus, Gorgias, Republic. Study of form, style, and philosophic content. Selections from Aristotle; the Nicomachean Ethics will also be read. Junior course, first term, 3 hours a week. Professor Winans.

32. Sophocles. Two plays will be read, and their literary qualities, dramatic construction, and stage-setting discussed. As far as possible these plays will also be read in Greek, metrically. Summaries of the other plays of Sophocles will be presented. Lectures

will be given on the myths involved, and on Sophocles' literary career. Junior course, second term, 3 hours a week. Professor Prentice, or an instructor.

33. Latin Literature of the Republic. General sketch. One lecture, two recitations weekly. Junior course, first term, 3 hours a week. Prerequisite to the subsequent courses in Classics. Professor Allen.

34. Latin Literature of the Empire. General sketch. One lecture, two recitations weekly. Junior course, second term, 3 hours a week. Prerequisite to the subsequent courses in Classics. Professor David Magie, Jr.

41. Æschylus: selected plays. Lectures on the author and his plays. Senior course, first term, 3 hours a week. Prerequisite courses: Classics. Prerequisite to the subsequent courses in Classics. Professor Robbins.

42. Greek Poetry. Survey of Greek poetic literature from Homer to Theocritus. Lectures and discussions; select readings, especially from the lyric poets; individual work with theses. Senior course, second term, 3 hours a week. Professor Winans.

43. Greek Historians. One lecture will be given each week on the history of Greek literature, with special regard to the sources of Greek history. The other hours will be devoted to reading selections from Greek historians, in order to compare the different accounts given by the Greeks themselves of various epochs in their history. *Hill*: Sources for Greek History. Senior course, first term, 3 hours a week. Professor Prentice.

44. Comparative Grammar of Greek and Latin, Lectures and practical exercises. Reference books: *Brugmann, Hirt, Lindsay, Meyer, Stolz.* Senior course, second term, 3 hours a week. Prerequisite course: Classics. Professor Robbins.

45. Lucretius: De Rerum Natura. Reading and interpretation of the text, with occasional illustrative lectures in appreciation of the poem in its literary, scientific, and religious aspects. Thesis at end of course on some topic suggested by the work of the term. *Harper's* text or any approved edition. Reference books: Histories of Latin Literature and Ancient Philosophy. Senior course, first term, 3 hours a week. Professor Allen.

46. Cicero: De Natura Deorum. Reading and interpretation of the text with selected portions of de Divinatione and de Fato, and citations from de Officiis, de Legibus, etc. Reading from Seneca's Moral Epistles. Occasional lectures illustrative of religious thought met in reading as above. *Harper's* text. Reference books: Histories of Latin Literature, Ancient Philosophy, etc. Senior course, second term, 3 hours a week. Professor Allen.

47. Roman Literary Criticism. *Quintilian:* Tenth book of the Institutio Oratoria; *Horace:* Epistles; *Tacitus:* The Dialogus. Senior course, first term, 3 hours a week. Dean West.

48. Tacitus. Reading of the annals and histories of Tacitus, with special attention to the author's style as a writer and his aims and methods as a historian. Senior course, second term, 3 hours a week. Professor Westcott.

101. Aristophanes. Selected plays. Graduate course, first term, 3 hours a week. Professor Robbins.

102. Historical Latin and Greek Grammar. Phonology and morphology. Lectures and reading. *Brugmann, Hirt, Meyer, Stolz,* and *Lindsay.* Graduate course, second term, 3 hours a week. Professor Robbins.

103. Greek Inscriptions. Lectures will be gvien on the

history of classical epigraphy, the alphabet, and the methods of interpretation. Practical exercises will be held in reading from casts and squeezes. Inscriptions of special historical value, chiefly those of the fifth century, will be interpreted and discussed. Graduate course, first term, 3 hours a week. Professor Prentice.

104. Thucydides. Critical study of the history of Thucydides. Graduate course, second term, 3 hours a week. Professor Winans.

105, 106. Mediæval Latin Literature. A course involving the extensive reading of representative writers and of the history of mediæval Latin literature. Graduate course, both terms, 3 hours a week. Dean West.

108, I. (Hist., Politics, and Econom., 108, I.) Law Orations of Cicero, with a study of the legal institutions of his time. Graduate course, second term, 3 hours a week, alternating with 108, II. Professor Westcott.

108, II. (Hist., Politics, and Econom., 108, II.) Sources of Early Roman Law. *Bruns:* Fontes Juris Romani Antiqui; *Lindsay:* Latin Inscriptions. Graduate course, second term, 3 hours a week. alternating with 108, I. Professor Westcott.

110. Tacitus. Reading of the whole of the author's works so far as not previously read. Study of date, sources, method, purpose, etc., of each work, and of the development of the author's style in his successive periods. Results of study to be embodied in weekly papers to be handed in and discussed. Graduate course, second term, 3 hours a week. Professor Westcott.

112. Introduction to the study of Mythology. Lectures and theses. Graduate course, second term, 3 hours a week. (Not given 1905-1906.) Professor Carter.

114. Palæography and Text-criticism. Reading of Latin manuscripts, search for material, collation, formation

of genealogies, and construction of text. Lectures and direction leading to theses. Graduate course, second term, 3 hours a week. Dr. Richardson.

V. DEPARTMENT OF ENGLISH

PROFESSORS HUNT, HENRY VAN DYKE, HARPER, PARROTT, AXSON, COVINGTON, CRAIG, GEROULD, GRIFFIN, LONG, MACDONALD, OSGOOD, ROOT, AND SPAETH; MR. TUCKERMAN, MR. CLEMONS, DR. CROLL, DR. MILES, AND DR. THOMAS

11, 12. Selected English authors, for special study and for general reading. The principles of composition and rhetoric will be derived therefrom. Frequent reports on assigned reading. Freshman required course, both terms, 2 hours a week for A.B., Litt.B., B.S., and C.E. Freshman. Professor Covington, Dr. Croll, Dr. Miles, Dr. Thomas, and Mr. Clemons.

22. Outline Sketch of English Literature. A brief survey of English literature from earliest times to the Victorian Age. Occasional lectures; oral and written recitations; reports on required reading. There will be a considerable amount of reading required and an additional list of books for optional reading. *Moody and Lovett:* History of English Literature. Sophomore elective, second term, 3 hours a week. Prerequisite to the choice of the English Department in Junior year. Professors Parrott, Axson, and Covington.

31. English Literature: The Sixteenth Century. The revival of learning, the Reformation, the national awakening under the Tudors, and the influence of Italy, in their effect upon English letters. Spenser, Sidney, Lyly, and Marlowe will be studied. Attention will be paid to the history of the drama and of

lyric poetry, and to the narratives of Elizabethan voyagers. Junior course, first term, 3 hours a week. Prerequisite courses: Sophomore English for A.B.; Sophomore English and Latin for Litt.B. Professor Harper.

32. English Literature; Shakespeare. Lectures and tests, either oral or written, on the following plays: Richard III, Midsummer Night's Dream, Romeo and Juliet, Merchant of Venice, Richard II, Henry IV, Parts 1 and 2, Henry V, As You Like It, Measure for Measure, Julius Cæsar, Hamlet, Macbeth, Othello, The Winter's Tale, The Tempest. Reference books: *Dowden:* Shakspeare, His Mind and Art; *Boas:* Shakspeare and His Predecessors. Junior course, second term, 3 hours a week. Professor Harper.

33. Middle and Modern English. Lectures on the history, vocabulary, and structure of the English language. Study of middle English syntax, readings of middle English texts, Chaucer, Langland. *Corson:* Chaucer's Canterbury Tales; *Bilderbeck:* Chaucer's Minor Poems; *Emerson:* English Language; *Pollard:* Chaucer; Junior course, first term, 3 hours a week. Prerequisite course: General English Literature. Prerequisite to Advanced Old English. Professor Hunt.

34. Elementary Old English. A grammatical and textual study, aiming to secure an accurate knowledge of the oldest forms of the language, and the ability to read the oldest prose texts and the simpler specimens of the verse. *Bright:* Anglo-Saxon Reader; *Emerson:* English Language; *Smith:* Old English Grammar; *Brooke:* English Literature to the Norman Conquest; *Hunt:* Caedmon; *Wyatt:* Old English Reader; *Cross:* Maldon. Junior course, second term, 3 hours a week. Prerequisite course: General English Literature. Prerequisite to Advanced Old English. Professor Hunt.

41. Eighteenth Century Literature. Rise of the Romantic school. Discussion of leading poets and prose writers from Pope to Wordsworth. Senior course, first term, 3 hours a week. Professor Axson.
42. Seventeenth Century Non-Dramatic Literature. Lectures on the poets and prose writers from the death of Shakespeare to the death of Milton, with special reference to the connection between literature and public life. Written reports on assigned reading, which will include *Milton's* poetry, his Areopagitica, and his Letter on Education, *Browne's* Religio Medici, *Walton's* Compleat Angler, *Howell's* Familiar Letters, and much of the Cavalier poetry. Senior course, second term, 3 hours a week. Professor Harper.
43. English Poetry of the Nineteenth Century. The course is designed to give as much information as possible about the subject and to prepare students for intelligent and interested reading. Senior course, first term, 3 hours a week. Professor Henry van Dyke.
44. English Prose of the Nineteenth Century. Discussion of the standard prose writers of the Victorian age. Senior course, second term, 3 hours a week. Prerequisite courses: preceding English courses. Professor Axson.

THE ENGLISH PRO-SEMINARY, open to qualified Seniors, is in charge of Professor Hunt. It consists of the following sections:

1. The Poetry of Tennyson. First term. Professor Henry van Dyke.
2. Eighteenth Century Literature; Poetry. First term. Professor Osgood.
3. Advanced Old English; Beowulf. First term. Professor Hunt.

4. Eighteenth Century Literature; Prose. Second term. Mr. Tuckerman.
5. Advanced Old English; Christian Poetry. Second term. Professor Spaeth.

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102. Beaumont and Fletcher: their Contemporaries and Collaborators. Graduate course, second term, 3 hours a week. Professor Parrott.
103. Modern Romantic Tragedy. A comparative study. Graduate course, first term, 3 hours a week. Professor Harper.
105. Old and Middle English Dialects. A study of the phonology and accidence of the chief dialects of old and middle English, from the eighth to the thirteenth century, illustrated by copious readings from the literature of the period. Graduate course, first term, 3 hours a week. Professor Craig.
106. Langland. Graduate course, second term, 3 hours a week. Professor Root.
107. Chaucer. Graduate course, first term, 3 hours a week. Professor Root.
108. Pre-Chaucerian Middle English Readings. Graduate course, second term, 3 hours a week. Professor Griffin.
109. Middle English Romances. Graduate course, first term, 3 hours a week. Professor Gerould.
111. Origins of the Story. Graduate course, first term, 3 hours a week. Professor Griffin.

VI. DEPARTMENT OF MODERN LANGUAGES

PROFESSORS LEWIS, VREELAND, HOSKINS, BLAU, BUFFUM, CRITCHLOW, GAUSS, KOREN, PRIEST, MOORE, NORTHUP, AND THAYER; MR. AUSTIN, DR. BEAM, DR. LYON, MR. MATHEWS, AND DR. RICHARDS

GERMANIC SECTION

11, 12. Beginners' German. Grammar, reading, and composition. Freshman course, both terms, 3 hours a week. Dr. Beam.

13, 14. German Prose and Poetry. Reading of selected works with drill in grammar and exercises in composition. Freshman course, both terms, 2 hours a week for A.B. Freshmen; 3 hours a week for B. S., Litt.B., and C.E. Freshmen. Prerequisite course: Entrance German A. Prerequisite to Sophomore German. Professor Blau, Dr. Lyon, and Dr. Richards.

21, 22. Beginners' German. Grammar, reading, and composition. Sophomore elective course, both terms, 3 hours a week. Dr. Beam.

23, 24. Sophomore German. An introduction to German literature of the eighteenth and nineteenth centuries. Reading of selected works; collateral reading. *Müller:* German Classics. Reference book: *Kluge:* History of German Literature. Sophomore elective course, both terms, 3 hours a week. Prerequisite course: German 13, 14, or entrance German B. Prerequisite to German 31, 32; 41, 42; 43, 44. Professors Priest and Thayer.

31, 32. German Literature from Opitz to Schiller. First term: selected works of *Wieland* and *Lessing* will be read and interpreted in the class; collateral reading in both German and English; lectures on German

literature from Opitz to Lessing's death. Second term: selected works of *Schiller;* collateral reading in both German and English; lectures on German literature from Lessing's death to Schiller's death. Reference books: *Scherer's, Robertson's* and *Francke's* histories of German literature. Junior course, both terms, 3 hours a week. Prerequisite course: German 23, 24. Professor Hoskins.

41, 42. Goethe's Life and Works. Lectures and reading. Götz von Berlichingen, Werther's Leiden, Iphigenie, Faust, Gedichte, Dichtung und Wahrheit, with collateral reading. Reference books: English and German works on Geothe's life and on Faust. Senior course, both terms, 3 hours a week. Prerequisite course: German 23, 24. Professor Blau.

43, 44. The Romantic School in Germany and German Literature since Goethe's death. This course comprises the reading of selected works, lectures, and collateral reading. Senior course, both terms, 3 hours a week. Prerequisite course: German, 23, 24. Dr. Beam.

THE MODERN LANGUAGE PRO-SEMINARY, open to qualified Seniors, is in charge of Professor Vreeland.

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101. Middle High German. Grammar, lectures, and reading. The course is designed both to furnish a foundation for the historical study of modern German and to serve as an introduction to the study of Germanic philology. Proficiency in modern German is required. *Paul:* Mittelhochdeutsche Grammatik; *Michels:* Mittelhochdeutsches Elementarbuch; *Weinhold:* Mittelhochdeutsches Lesebuch. Graduate course, first term, 3 hours a week. Professor Hoskins.

102. Old High German. Grammar, reading, and lectures on the historical development of the German language. Knowledge of modern German and middle high German required, and some knowledge of Gothic, useful. *Braune:* Althochdeutsches Lesebuch; *Braune:* Althochdeutsches Grammatik. Graduate course, second term, 3 hours a week. Professor Hoskins.

103. Historical German Grammar. Introduction, phonology, morphology. Requires a knowledge of Gothic, old, and middle High German. Lectures. References to *Paul:* Grundriss der Germanischen Philologie; *Streitberg:* Urgermanische Grammatik. Graduate course, first term, 3 hours a week. Professor Hoskins.

104. Old Icelandic. Grammar, lectures, and reading. For advanced students. *Noreen:* Altisländische und Altnorwegische Grammatik; *Kahle:* Altisländisches Elementarbuch; *Ranisch:* Die Volsungasaga. Graduate course, second term, 3 hours a week. Professor Hoskins.

106. Gothic. Grammar and reading. *Wright:* Gothic Primer; *Bernhardt:* Vulfila. Graduate course, second term, 3 hours a week. Professor Priest.

Romanic Section

11, 12. Beginners' French. Grammar, composition, and reading. *Fraser and Squair:* Grammar. Freshman course, both terms, 3 hours a week. Professor Northup and Mr. Austin.

13, 14. Freshman French. This course consists of reading and practical exercises in French syntax and composition, with collateral reading. Freshman course, both terms, 2 hours a week for A.B. Freshmen, 3 hours a week for Litt.B., B.S., and C.E. Freshmen. Prerequisite course: Entrance French A. Prerequi-

site to Sophomore French. Professors Critchlow, Buffum, and Mr. Mathews.

21, 22. Beginners' French. Grammar, composition, and reading. *Fraser and Squair:* Grammar. Sophomore elective, both terms, 3 hours a week. Professor Northup and Mr. Austin.

23, 24. Sophomore French. General introduction to the study of French literature. This course consists of a general survey of French literature, based on text-books, with a study of representative works of different periods. Sophomore elective, both terms, 3 hours a week. Prerequisite course: French 13, 14, or Entrance French B. Prerequisite to French 31, 32; 41, 42; 43, 44. Professors Vreeland and Moore.

31, 32. French. The Classical Period. The classical period of French literature with special attention to the development of the drama. This course consists of a study of representative plays, collateral reading, and themes. Junior course, both terms, 3 hours a week. Prerequisite course: French 23, 24. Professor Koren.

35. Italian. Grammar, composition, and reading. *Grandgent:* Italian Grammar. Junior course, first term, 3 hours a week. Prerequisite to Italian 36. Professor Gauss.

36. Italian. Reading of the Inferno of Dante. *Scartazzini:* La Divina Commedia di Dante Alighieri. Junior course, second term, 3 hours a week. Prerequisite course: Italian 35. Prerequisite to Italian 45. Mr. Austin.

37, 38. Spanish. Grammar, composition and reading from modern Spanish authors. Junior course, both terms, 3 hours a week. Prerequisite to Spanish 47, 48. Professors Lewis and Northup.

41, 42. French. The Romantic Movement. The origin

and development of the romantic movement. In this course themes on special topics are required in addition to a large amount of reading. Senior course, both terms, 3 hours a week. Prerequisite course: French 23, 24. Professor Gauss.

43, 44. Old French. A study of the language and literature of France from its origin to the Renaissance. This course consists of a general survey of the history of the language, and of the extensive reading of texts with special attention to their literary side. Senior course, both terms, 3 hours a week. Prerequisite course: French 23, 24. Professor Lewis.

45. Italian. Reading of the Purgatorio of Dante. *Scartazzini:* La Divina Commedia di Dante Alighieri. Senior course, first term, 3 hours a week. Prerequisite course: Italian 36. Prerequisite to Italian 46. Mr. Austin.

46. Italian. Reading of the Paradiso of Dante. *Scartazzini:* La Divina Commedia di Dante Alighieri. Senior course, second term, 3 hours a week. Prerequisite course: Italian 45. Mr. Austin.

47. Spanish. General survey of Spanish literature and extensive readings from modern Spanish authors. Senior course, first term, 3 hours a week. Prerequisite courses: Spanish 37, 38. Prerequisite to Spanish 48. Professor Lewis.

48. Spanish. Spanish literature of the Golden Age and readings from Cervantes, Calderón, and Lope de Vega. Senior course, second term, 3 hours a week. Prerequisite courses: Spanish 37, 38, 47. Professor Lewis.

THE MODERN LANGUAGE PRO-SEMINARY, open to qualified Seniors, is in charge of Professor Vreeland.

101, 102. Old French Philology. Lectures on old French etymology, morphology, and syntax. Graduate course, both terms, 3 hours a week. Professor Lewis.

COURSES NOT INCLUDED IN ANY OF THE PRECEDING DEPARTMENTS

49. Roman Law. One lecture and two recitations weekly in the History and Institutes of Roman Law. *Sohm:* Institutes of Roman Law; English translation. Senior course, first term, 3 hours a week. Professor Westcott. (This course falls in Division A.)

50. Roman Law. The Institutes of Justinian and Gaius in Latin: translation and exposition. *Sandars:* (or other) Justinian; *Robinson:* Selections from Roman Law. Senior course, second term, 3 hours a week. Prerequisite course: Roman Law 49. Professor Westcott. (This course falls in Division A.)

41, 42. Sanskrit. Senior course, both terms, 3 hours a week. Professor Winans. (This course falls in Division C.)

43, 44. Semitics. Senior course, both terms, 3 hours a week. (Not given 1905-1906.) Dr Littmann. (This course falls in Division C.)

45, 46. Biblical Literature. Origin, development, nature, and content of the literature of the Old and New Testaments. In the first term, the Old Testament; second term, the New Testament. Lectures and informal discussions. Required reading from the English text itself, and from *Kent:* History of the Hebrews; *Riggs:* Maccabean Period; *Cornill:* Prophets of Israel; *Mathews:* New Testament Times; *Wendt:* Teaching of Jesus; and *Bruce:* St. Paul's Conception of Christianity. Senior course, both terms, 3 hours a week. Professor Miller. (This course falls in Division C.)

101, 102. Advanced Arabic. Interpretation of the more

difficult texts; reading of manuscripts and inscriptions. *Noeldeke-Müller*: Delectus Veterum Carminum Arabicorum: *Imâd ad-Dîn*: Conquest of Syria and Palestine by Saladin (Ed. *Landberg*). Graduate course, both terms, 3 hours a week. (Not given 1905-1906.) Dr. Littmann.

103, 104. Ethiopic. Outline of the history of Ethiopic literature, with interpretation of selections from different works, and reading of manuscripts. Graduate course, both terms, 3 hours a week. (Not given 1905-1906.) Dr. Littmann.

105. Semitic Epigraphy. Interpretation of Phœnician, Palmyræan, Nabatæan, or south Arabian inscriptions. *Lidzbarski:* Handbuch der Nordsemitischen Epigraphik; *Hommel:* Südarabische Chrestomathie. Graduate course, first term, 3 hours a week. (Not given 1905-1906.) Dr Littmann.

106. Advanced Syriac. Interpretation of a text from *Land:* Anecdota Syriaca. Graduate course, second term, 3 hours a week. (Not given 1905-1906.) Dr. Littmann.

Courses on other Semitic languages and their literature, and in addition on Coptic and Turkish, may be given if desired.

107, 108. Advanced Sanskrit. Reading of classical and Vedic Sanskrit in the first and second terms. *Windisch:* Zwölf Hymnen des Rig Veda; or *Peterson:* Handbook to the Study of the Rig Veda, Part II. Graduate course, both terms, 3 hours a week. Professor Winans or Professor Robbins.

109, 110. Avesta. Grammar and reading of selected texts. *Jackson:* Avesta Grammar, Avesta Reader, first

series; *Geldner:* Avesta; *Mills:* Gâthâs. Graduate course, both terms, 3 hours a week. Professor Robbins.

FRESHMAN FIRST TERM SCHEDULE, 1905–1906

	MONDAY		TUESDAY		WEDNESDAY	
8	Alg III	V S1	Alg III	V S1	Trig I	G D19
	Trig V	Mc D19	Trig V	Mc D19	Trig III	V S1
	Trig VII	U D28	Trig VII	U D28	Alg IX	B D29
	Alg XI	Mo D29	Alg XI	Mo D29	Trig XI	U D28
	Alg XV	S S7	Alg XV	S S7	Trig XIII	Mc D1
	Trig XVII	H D18	Trig XVII	H D18	Alg XVII	S S7
			Hygiene I	D8	Hygiene II	D8
9	Alg IV	V S1	Alg IV	V S1	Trig II	G D19
	Trig VI	Mc D19	Trig VI	Mc D19	Trig IV	V S1
	Trig VIII	U D28	Trig VIII	U D28	Alg X	Mo D29
	Alg X I	Mo D29	Alg XII	Mo D 29	Trig XII	U D28
	Alg XVI	S S7	Alg XVI	S S7	Trig XIV	H D18
	Trig XVIII	H D18	Trig XVIII	H D18	Alg XVIII	S S7
10	A Latin I	(D16)	A Latin I	Wct D16	A Latin I	Wct D16
	A Latin III	Al D17	A Latin III	(D17)	A Latin III	Al D17
	A Latin V	G D14	A Latin V	G D14	A Latin V	(D14)
	A Greek VII	J D26	A Greek VII	J D26	A Greek VII	J D26
	A Greek II		A Greek IV		A Greek VI	
	S Physics I	S 23	S Physics I	S23	S Physics I	S23
	S French I	S 3	S French I	S3	S French I	S3
	S French III	D19	S French III	D19	S French III	D19
	S German I	D20	S German I	D29	S German I	D20
	S German III	D18	S German III	D18	S German III	D18
11	A Latin II	(D26)	A Latin II	G D26	A Latin II	G D26
	A Latin IV	Al D17	A Latin IV	(D17)	A Latin IV	Al D 17
	A Latin VI	Wct D16	A Latin VI	Wct D16	A Latin VI	(D16)
	A Greek I		A Greek III		A Greek V	
	E Chemistry	C	E Chemistry	C	E Chemistry	C
	L Physics II	S23	L Physics II	S23	L Physics II	S23
	L French II	S3	L French II	S 3	L French II	S3
	L French IV	D19	L French IV	D19	L French IV	D19
	L German II	D29	L German II	D29	L German II	D29
	L German IV	D18	L German IV	D18	L German IV	D18
12	A Greek III	L D13	A Greek I	Pr D26	A Greek I	Pr D26
	A Greek V	K D4	A Greek V	K D4	A Greek III	L D13
	A Latin VII	F D12	A Latin VII	F D12	A Latin VII	F D12
	L Latin XI	(D5)	L Latin XI	A D5	L Latin XI	A D5
	L Latin XIII	B D16	L Latin XII	(D16)	L Latin XIII	B D16
	L Latin XV	C D17	L Latin XV	C D17	L Latin XV	(D17)
1	A Greek IV	L D13	A Greek II	K D4	A Greek II	K D4
	A Greek VI	M D26	A Greek VI	M D26	A Greek IV	L D13
	L Latin XII	(D17)	L Latin XII	C D17	L Latin XII	C D17
	L Latin XIV	BD16	L Latin XIV	(D16)	L Latin XIV	B D16
	L Latin XVI	A D5	L Latin XVI	A D5	L Latin XVI	(D5)
	E Graphics		E Graphics			
2	E Graphics	S10	E Graphics	S10		

FRESHMAN FIRST TERM SCHEDULE, 1905–1906

	THURSDAY		FRIDAY		SATURDAY	
8	Trig I	G D19	Alg I	F(E) D19	Alg I	F(E) D19
	Trig III	Y S1	Alg V	B S1	Alg V	B S1
	Alg IX	B D29	Alg VII	S S7	Alg VII	S S7
	Trig XI	U D28	Trig IX	U D28	Trig IX	U D28
	Trig XIII	Mc D18	Alg XIII	Mo D29	Alg XIII	Mo D29
	Alg XVII	S S7	Trig XV	H D18	Trig XV	H D18
			Hygiene III	D8		
9	Trig II	G D19	Alg II	F(E) D19	Alg II	F(E) D19
	Trig IV	Y S1	Alg VI	B S1	Alg VI	B S1
	Alg X	Mo D29	Alg VIII	S S7	Alg VIII	S S7
	Trig XII	U D28	Trig X	U D28	Trig X	U D28
	Trig XIV	H D18	Alg XIV	Mo D29	Alg XIV	Mo D29
	Alg XVIII	S S7	Trig XVI	H D18	Trig XVI	H D18
10	A Latin I	Wct D16	A English I	D28	A English I	D28
	A Latin III	Al D17	A English III	D20	A English III	D29
	A Latin V	G D14	A English V	D16	A English V	D16
	A Greek VII		A English VII	D17	A English VII	D17
	E French V	D4	E French V	D4	E French V	D4
	S French VII	D6	S French VII	D6	S French VII	D6
	S French IX	D18	S French IX	D18	S French IX	D18
	S French XI	D13	S French XI	D13	S French XI	D13
	S German V	D7	S German V	D7	S German V	D7
	S German VII	D19	S German VII	D19	S German VII	D19
11	A Latin II	G D14	A English II	D28	A English II	D28
	A Latin IV	Al D17	A English IV	D20	A English IV	D29
	A Latin VI	Wct D16	A English VI	D16	A English VI	D16
	A Latin VII		A English VIII	D17	A English VIII	D17
	S French VIII	D6	S French VIII	D6	S French VIII	D6
	S French X	D18	S French X	D18	S French X	D18
	S French XII *	D13	S French XII *	D13	S French XII *	D13
	S German VI	D7	S German VI	D7	S German VI	D7
	S German VIII	D19	S German VIII	D19	S German VIII	D19
12	A Greek I	Pr D26	A French XV	D6	A French XV	D6
	A Greek III	L D13	A French XVII	D4	A French XVII	D4
	A Greek V	K D4	A German XV	D7	A German XV	D7
	L Latin XI	A D5	A German XVII	D5	A German XVII	D5
	L Latin XIII	B D16	S English XI	D28	S English XI	D28
	L Latin XV	C D17	S English XIII	D29	S English XIII	D29
			S English XV	D18	S English XV	D18
			S English XVII	D19	S English XVII	D19
1	A Greek II	K D4	A French XVI	D6	A French XVI	D6
	A Greek IV	L D13	A French XVIII *	D4	A French XVIII *	D4
	A Greek VI	M D26	A German XVI	D7	A German XVI	D7
	L Latin XII	C D17	A German XVIII	D5	A German XVIII	D5
	L Latin XIV	B D16	S English XII	D28	S English XII	D28
	L Latin XVI	A D5	S English XIV	D29	S English XIV	D29
			S English XVI	D18	S English XVI	D18
			S English XVIII	D19	S Eng ish XVIII	D19
2						

ACADEMIC SOPHOMORE FIRST TERM SCHEDULE, 1905-1906

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8	History I D26 History IV S28 History VII D13	History I D26 History IV S28 History VII D13	History I D26 History IV S28 History VII D13	Rqd Greek I (α D12) Rqd Greek III D13 Rqd Greek V β D4	Rqd Greek I α D12 Rqd Greek III (D13) Rqd Greek V β D4	Rqd Greek I α D12 Rqd Greek III D13 Rqd Greek V (D4)
9	Chemistry I, II C History II D26 History V D12 History VIII D13	Chemistry I, II C History II D26 History V D12 History VIII D13	Chemistry I, II C History II D26 History V D12 History VIII D13	Rqd Greek II α D12 Rqd Greek IV D13 Rqd Greek VI (β D4)	Rqd Greek II α D12 Rqd Greek IV (D13) Rqd Greek VI β D4	Rqd Greek II (D12) Rqd Greek IV D13 Rqd Greek VI β D4
10	French I D6 French III D4 German II D7 German IV D28 History III D13 History VI D12 Math V ι S1	French I D6 French III D4 German II D7 German IV D28 History III D13 History VI D12 Math V ι S1	French I D6 French III D4 German II D7 German IV D28 History III D13 History VI D12 Math V ι S1	Logic I D8 Logic III S28 Logic V S31 Logic VII S3 Logic IX N Ed10 Logic XI N Ed11	Logic I D8 Logic III S28 Logic V S31 Logic VII S3 Logic IX N Ed10 Logic XI N Ed11	Logic I-XI D8
11	German I D7 German III D28 French II D6 French IV S31 Beg French V S28 Beg French VII D8 Beg French IX D18 Beg German V D29 Math VI η S7	German I D7 German III D28 French II D6 French IV S31 Beg French V S28 Beg French VII D8 Beg French IX D18 Beg German V D29 Math VI η S7	German I D7 German III D28 French II D6 French IV S31 Beg French V S28 Beg French VII D8 Beg French IX D18 Beg German V D29 Math VI η S7	Logic II S28 Logic IV S31 Logic VI S3 Logic VIII N Ed10 Logic X N Ed11	Logic II S28 Logic IV S31 Logic VI S3 Logic VIII N Ed10 Logic X N Ed11	
12	Math I β S7 Math III ι S1 Math VII η D28 Latin II S3	Math I β S7 Math III ι S1 Math VII η D28 Latin II S3	Math I β S7 Math III ι S1 Math VII η D28 Latin II (S3)	Rqd Physics I S23	Rqd Physics I S23	Rqd Physics I S23
1	Latin I (S3) Math II μ S7	Latin I S3 Math II μ S7	Latin I S3 Math II μ S7	Rqd Physics II S23	Rqd Physics II S23	Rqd Physics II S23
2-6						

ACADEMIC SOPHOMORE SECOND TERM SCHEDULE, 1904–1905

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8	English I, II, III S10	English I S10 English II S28 English III S31	English I S10 English II S28 English III S31	Latin I D14 Latin III D12 Latin V D13	Latin I D14 Latin III D12 Latin V D13	Latin I D14 Latin III D12 Latin V D13
9	Chemistry I, II C English IV, V, VI S10 French III D6 German III D7	Chemistry I, II C English IV S10 English V S28 English VI S31 French III D6 German III D7	Chemistry I, II C English IV S10 English V S28 English VI S31 French III D6 German III D7	Latin II D14 Latin IV D12 Latin VI D13	Latin II D14 Latin IV D12 Latin VI D13	Latin II D14 Latin IV D12 Latin VI D13
10	French I D6 German II D7 Eng VII, VIII, IX S10	French I D6 German II D7 English VII S10 English VIII 28 English IX S31	French I D6 German II D7 English VII S10 English VIII S28 English IX S31	Psych I, II, III τ D8	Psych IV, V, VI τ D8 Psych III φ D26	Psych I, II, III τ D8 Psych IV φ D26
11	German I D7 French II D6	German I D7 French II D6	German I D7 French II D6	Psych IV, V, VI τ D8	Psych I τ D8 Psych II φ D26	Psych V τ D8 Psych VI φ D26
12	Math I τ D18 Math III ν D19 Greek II D12	Math I τ D18 Math III ν D19 Greek II D12	Math I τ D18 Math III ν D19 Greek II D12	Physics I S23	Physics I S23	Physics I S23
1	Math II κ D19 Math IV τ D18 Greek I D12	Math II κ D19 Math IV τ D18 Greek I D12	Math II κ D19 Math IV τ D18 Greek I D12	Physics II S23	Physics II S23	Physics II S23

ACADEMIC JUNIOR FIRST TERM SCHEDULE, 1905–1906

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Italian, 35 D5 Greek, 31 D12	Italian, 35 D5 Greek, 31 D12	Italian, 35 D5 Greek, 31 D12	Adv Psych, 33 S28 French, 31 D6	Adv Psych, 33 S28 French, 31 D6	Adv Psych, 33 S28 French, 31 D6
9	Jurisprud, 33 D21 Biology, 31 S25	Jurisprud, 33 D21 Biology, 31 S25	Jurisprud, 33 D21 Biology, 31 S25	History, 31 D2 German, 31 D7 Theor Chem, 31 C	History, 31 D2 German, 31 D7 Theor Chem, 31 C	History, 31 D2 German, 31 D7 Theor Chem, 31 C
10	Art & Arch, 31 Calc & Geom S7	Art & Arch, 31 Calc & Geom S7	Art & Arch, 31 Calc & Geom S7	Anal Mech I S7 Anal Mech III S1 Mineralogy 33 C9 (Hist. 31 D12)	Anal Mech I S7 Anal Mech III S1 Mineralogy 33 C9 (Hist. 31 D12)	Anal Mech I S7 Anal Mech III S1 Mineralogy 33 C9 (Hist. 31 D12)
11	En Phil, D2, 4 & 5 Geology, 31 N	En Phil, D2, 4 & 5 Geology, 31 N	En Phil, D2, 4 & 5 Geology, 31 N	English Lit, 31 D2 Astronomy, 31 S25 Archit 33 M	English Lit, 31 D2 Astronomy, 31 S25 Archit 33 M	English Lit, 31 D2 Astronomy, 31 S25 Archit 33 M
12	Hist Philos, 31 D8 Spanish, 37 D6&7 Physics 31 S 23	Hist Philos, 31 D8 Spanish, 37 D6&7 Physics 31 S23	Hist Philos, 31 D8 Spanish, 37 D6&7 Physics 31 S23	Economics, 35 D6&7 Graphics S	Economics 35 D16–17 Graphics S	Economics, 35 D2 Graphics S
1	Qual Analysis, 33 C	Qual Analysis, 33 C	Qual Analysis, 33 C	Latin, 33 D14 Histology, 33 Lab Graphics S (Econ D 6 & 7)	Latin, 33 D14 Histology, 33 Lab Graphics S (Econ D16 & 17)	Latin, 33 D14 Histology, 33 Lab Graphics S
2–6						

ACADEMIC JUNIOR SECOND TERM SCHEDULE, 1904–1905

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Italian 36 D5	Italian 36 D5	Italian 36 D5	Physics 32 S23 Adv Logic 34 D4 French 32 D6	Physics 32 S23 Adv Logic 34 D4 French 32 D6	Physics 32 S23 Adv Logic 34 D4 French 32 D6
9	Const Gov 34 D21 Biology 32 S25	Const Gov 34 D21 Biology 32 S25	Const Gov 34 D21 Biology 32 S25	History 32 S10 German 32 D7	History 32 S10 German 32 D7	History 32 S10 German 32 D7
10	Art & Arch 32 S25 Geometry 32 D18	Art & Arch 32 S25 Geometry 32 D18	Art & Arch 32 S25 Geometry 32 D18	Chemistry 32 C9 Anal Mech 34 D19	Chemistry 32 C9 Anal Mech 34 D19	Chemistry 32 C9 Anal Mech 34 D19
11	Eng Phil 34 D2,4&5 Phys Geog 34 N	Eng Phil 34 D2,4&5 Phys Geog 34 N	Eng Phil 34 D2,4&5 Phys Geog 34 N	English Lit 32 D2	English Lit 32 D2	English Lit 32 D2
12	Hist Philos 32 D8 Spanish 38 D7	Hist Philos 32 D8 Spanish 38 D7	Hist Philos 32 D8 Spanish 38 D7	Economics 36 D2 Geology 32 N	Economics 36 D2 Geology 32 N	Economics 36 D2 Geology 32 N
1	Greek 32 D26 Quan Analysis 34 C	Greek 32 D26 Quan Analysis 34 C	Greek 32 D26 Quan Analysis 34 C	Latin 34 D14 Botany 34 S25	Latin 34 D14 Botany 34 S25	Latin 34 D14 Botany 34 S25
2–6						

ACADEMIC SENIOR FIRST TERM SCHEDULE, 1905-1906

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Spanish, 47 D7 Paleontology, 45 N Mathematics, 41 S6 Chemistry, 45 C	Spanish, 47 D7 Paleontology, 45 N Mathematics, 41 S6 Chemistry, 45 C	Spanish, 47 D7 Paleontology, 45 N Mathematics, 41 S6 Chemistry, 45 C	Geology, 41 N Exp Psych, 43 Lab German, 41 D7	Geology, 41 N Exp Psych, 43 Lab German, 41 D7	Geology, 41 N Exp Psych, 43 Lab German, 41 D7
9	Biology, 41 Lab Outlines Phil, 41 D4 English, 41 D2 Roman Law, 49 D16	Biology, 41 Lab Outlines Phil, 41 D4 English, 41 D2 Roman Law, 49 D16	Biology, 41 Lab Outlines Phil, 41 D4 English, 41 D2 Roman Law, 49 D16	Physics, 43 Lab Economics, 49 D14 French Lit, 41 D26 Biology, 43 S25	Physics, 43 Lab Economics, 49 D14 French Lit, 41 D26 Biology, 43 S25	Physics, 43 Lab Economics, 49 D14 French Lit, 41 D26 Biology, 43 S25
10	Greek, 43 Chemistry, 43 C Old French, 43 D5 Bibl Lit S31	Greek, 43 Chemistry, 43 C Old French, 43 D5 Bibl Lit S31	Greek, 43 Chemistry, 43 C Old French, 43 D5 Bibl Lit S31	Art & Arch, 43 English, 43 D21 Sanskrit	Art & Arch, 43 English, 43 D21 Sanskrit	Art & Arch, 43 English, 43 D21 Sanskrit
11	Ethics, 45 D12 Latin, 45 D14 Politics, 47 S10	Ethics, 45 D12 Latin, 45 D14 Politics, 47 S10	Ethics, 45 D12 Latin, 45 D14 Politics, 47 S10	Greek, 41 D4 Mathematics, 43 Amer Hist, 43 D8	Greek, 41 D4 Mathematics, 43 Amer Hist, 43 D8	Greek, 41 D4 Mathematics, 43 Amer Hist, 43 D8
12	Mineralogy, 47 C Art & Arch, 41 German, 43 D29 History, 41 D2 Physics, 41 Lab	Mineralogy, 47 C Art & Arch, 41 German, 43 D29 History, 41 D2 Physics, 41 Lab	Mineralogy, 47 C Art & Arch, 41 German, 43 D29 History, 41 D2 Theor Pr Mct, 41 S13 Physics, 41 Lab	Politics, 45 S10 Latin, 47 D14 Theor Pr Mot, 41 S13	Politics, 45 S10 Latin, 47 D14 Theor Pr Mot, 41 S13	Politics, 45 S10 Latin, 47 D14
1	Italian, 45 D7	Italian, 45 D7	Italian, 45 D7 Theor Pr Mot, 41 S13	Geology, 43 N Pract Astron, 41 Obs Theor Pr Mot, 41 S13	Geology, 43 N Pract Astron, 41 Obs Theor Pr Mot, 41 S13	Geology, 43 N Pract Astron, 41 Obs
2-6	Chem, 45 C	Chem, 45 C	Chem, 45 C	Chem, 41 C Pract Astron, 41 Obs	Chem, 41 C Pract Astron, 41 Obs	Chem, 41 C Pract Astron, 41 Obs

ACADEMIC SENIOR SECOND TERM SCHEDULE 1904–1905

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Spanish 48 D7 Mathematics 42 S6 German 44 D6	Spanish 48 D7 Mathematics 42 S6 German 44 D6	Spanish 48 D7 Mathematics 42 S6 German 44 D6	Geology 42 N German 42 D7	Geology 42 N German 42 D7	Geology 42 N German 42 D7
9	Biology 42 Lab English 42 D2 Roman Law 50 D16	Biology 42 Lab English 42 D2 Roman Law 50 D16	Biology 42 Lab English 42 D2 Roman Law 50 D16	Physics 44 Lab Economics 50 D8 French Lit 42 D2 Biology 44 S25	Physics 44 Lab Economics 50 D8 French Lit 42 D2 Biology 44 S25	Physics 44 Lab Economics 50 D8 French Lit 42 D2 Biology 44 S25
10	Greek 44 L Paleontology 46 N Old French 44 D5 Chemistry 44A C9 Pr Mot 42 S13 History 42 D2	Greek 44 L Paleontology 46 N Old French 44 D5 Chemistry 44A C9 Pr Mot 42 S13 History 42 D2	Greek 44 L Paleontology 46 N Old French 44 D5 Chemistry 44A C9 Pr Mot 42 S13 History 42 D2	(Art & Arch 44) English 44 D2 Philos 44 D4 Sanskrit	Art & Arch 44 English 44 D2 Philos 44 D4 Sanskrit	(Art & Arch 44) English 44 D2 Philos 44 D4 Sanskrit
11	Ethics 46 D8 Latin 46 D14 Politics 48 S10 Pr Mot 42 S13	Ethics 46 D8 Latin 46 D14 Politics 48 S10 Pr Mot 42 S13	Ethics 46 D8 Latin 46 D14 Politics 48 S10 Pr Mot 42 S13	Greek 42 L Mathematics 44 D19 Amer Hist 44 D21 Phys Chem 44 S6	Greek 42 L Mathematics 44 D19 Amer Hist 44 D21 Phys Chem 44 S6	Greek 42 L Mathematics 44 D19 Amer Hist 44 D21 Phys Chem 44 S6
12	Art & Arch 42 S25 Phys Geog 44 N Hist Phil 42 D8	Art & Arch 42 S25 Phys Geog 44 N Hist Phil 42 D8	Art & Arch 42 S25 Phys Geog 44 N Hist Phil 42 D8	Politics 46 S10 Latin 48 D14 Hist Nat Phil D2	Politics 46 S10 Latin 48 D14 Hist Nat Phil D2	Politics 46 S10 Latin 48 D14 Hist Nat Phil D2
1	Italian 46 D7 Physics 42 S23 Chemistry 48A C	Italian 46 D7 Physics 42 S23 Chemistry 48A C	Italian 46 D7 Physics 42 S23 Chemistry 48A C	Pract Astron 42 Obs	Pract Astron 42 Obs	Pract Astron 42 Obs
2	Chemistry 42A C	Chemistry 42A C	Chemistry 42A C	Chem 42A C Pract Astron 42 Obs Chem 46 C	Chem 42A C Pract Astron 42 Obs Chem 46 C	Chem 42A C Pract Astron 42 Obs Chem 46 C

JOHN C. GREEN SCHOOL OF SCIENCE

FACULTY

WOODROW WILSON, PH.D., LITT.D., LL.D., *President.*
HENRY BURCHARD FINE, PH.D., *Dean of the Faculty, Dod Professor of Mathematics.*
ANDREW FLEMING WEST, PH.D., LL.D., HON. D.LITT. (Oxon.), *Dean of the Graduate School, Giger Professor of Latin.*

CYRUS FOGG BRACKETT, M.D., LL.D., *Henry Professor of Physics.*
HENRY BEDINGER CORNWALL, E.M., PH.D., *Professor of Chemistry and Mineralogy.*
GEORGE MACLOSKIE, D.SC., LL.D., *Professor of Biology.*
CHARLES MCMILLAN, A.M., C.E., *Professor of Civil Engineering.*
CHARLES AUGUSTUS YOUNG, PH.D., LL.D., *Professor of Astronomy, Emeritus.*
CHARLES GREENE ROCKWOOD, JR., PH.D., *Professor of Mathematics, Emeritus.*
WILLIAM LIBBEY, D.SC., *Professor of Physical Geography.*
WILLIAM BERRYMAN SCOTT, PH.D., *Blair Professor of Geology.*
FREDERICK NEWTON WILLSON, A.M., C.E., *Professor of Graphics.*
WILLIAM FRANCIS MAGIE, PH.D., *Clerk of the University Faculty, Professor of Physics.*
LEROY WILEY MCCAY, D.SC., *Professor of Chemistry.*
HENRY DALLAS THOMPSON, D.SC., PH.D., *Professor of Mathematics.*
HERBERT STEARNS SQUIER SMITH, C.E., *Professor of Civil Engineering.*
WALTER BUTLER HARRIS, C.E., *Professor of Geodesy.*
ELMER HOWARD LOOMIS, PH.D., *Professor of Physics.*
EDGAR ODELL LOVETT, PH.D., *Professor of Astronomy.*
WALTER MEAD RANKIN, PH.D., *Professor of Biology.*
CHARLES FREEMAN WILLIAMS MCCLURE, A.M., *Professor of Zoology.*
ALEXANDER HAMILTON PHILLIPS, D.SC., *Professor of Mineralogy.*
FRED NEHER, A.M., *Professor of Chemistry.*
CHARLES HENRY SMYTH, PH.D., *Professor of Geology.*
JAMES HOPWOOD JEANS, M.A., *Professor of Applied Mathematics.*
ULRIC DAHLGREN, M.S., *Assistant Professor of Biology.*

HOWARD MCCLENAHAN, E.E., M.S., *Assistant Professor of Physics.*
GEORGE AUGUSTUS HULETT, PH.D., *Assistant Professor of Physical Chemistry.*
WILLIAM FOSTER, PH.D., *Assistant Professor of Chemistry.*
GILBERT AMES BLISS, PH.D., *Preceptor in Mathematics.*
LUTHER PFAHLER EISENHART, PH.D., *Preceptor in Mathematics*
WILLIAM GILLESPIE, PH.D., *Preceptor in Mathematics.*
OSWALD VEBLEN, PH.D., *Preceptor in Mathematics.*
JOHN WESLEY YOUNG, PH.D., *Preceptor in Mathematics.*
MARCUS STULTS FARR, D.SC., *Preceptor in Geology.*

INSTRUCTORS

ALFRED ALEXANDER WOODHULL, M.D., LL.D., *Lecturer on Personal Hygiene.*
JOHN GALE HUN, PH.D., *Instructor in Mathematics.*
CHARLES RANALD MACINNES, PH.D., *Instructor in Mathematics.*
EMERSON BOYD MORROW, A.M., *Instructor in Mathematics.*
CARL EBEN STROMQUIST, PH.D., *Instructor in Mathematics.*
ANTHONY LISPENARD UNDERHILL, A.B., *Instructor in Mathematics.*
HENRY NORRIS RUSSELL, PH.D., *Instructor in Astronomy.*
RAYMOND SMITH DUGAN, PH.D., *Instructor in Astronomy.*
EDWIN PLIMPTON ADAMS, PH.D., *Instructor in Physics.*
CLINTON JOSEPH DAVISSON, *Instructor in Physics.*
HERMAN WILLIAM MARCH, A.M., *Instructor in Physics.*
PHILIP ELY ROBINSON, PH.D., *Instructor in Physics.*
ROYAL EUGENE TRONE, A.B., *Instructor in Physics.*
WALTER LYMAN UPSON, E.E., M.S., *Instructor in Electrical Engineering and Physics.*
LIONEL HERMAN DUSCHAK, A.B , *Assistant in Chemistry.*
TRUMAN STEPHEN WOODWARD, A.B., *Assistant in Chemistry.*
WILLIAM DOLTON PARDOE, B.S., *Assistant in Mineralogy.*
WILLIAM JOHN SINCLAIR, PH.D., *Instructor in Geology.*
GILBERT VAN INGEN, *Assistant in Geology.*
CHARLES FREDERICK SILVESTER, *Assistant in Anatomy*
JOSEPH RUDD GREENWOOD, C.E., *Instructor in the Department of Civil Engineering.*
EDWARD CHARLES MCWILLIAMS, B.S., *Instructor in the Department of Civil Engineering.*
CHARLES SILAS SINCERBEAUX, A.B., *Instructor in the Department of Civil Engineering.*

D. DIVISION OF MATHEMATICS AND SCIENCE

VII. DEPARTMENT OF MATHEMATICS

DEAN FINE, PROFESSORS THOMPSON, JEANS, BLISS, EISENHART, GILLESPIE, VEBLEN, AND YOUNG; DR. HUN, DR. MACINNES, MR. MORROW, DR. STROMQUIST, AND MR. UNDERHILL

11, 12. Seclected Portions of Algebra and Elementary Theory of Equations. The elementary treatment of infinite series, undetermined coefficients, the binomial theorem for fractional and negative exponents, the theory of logarithms, determinants, and the elements of the theory of equations, including Horner's method for solving numerical equations. *Fine:* College Algebra. Required of all Freshmen, both terms, 2 hours a week. Dean Fine, Professors Eisenhart, Veblen, Dr. Stromquist, Dr. Mac Innes, or Mr. Morrow.

13. Plane Trigonometry. Definitions of the six trigonometric functions as ratios, relations between these six functions, values of the functions for 0°, 30°, 45°, 60°, 90°, 120°, 135°, etc., etc., formulas for the sine, cosine, and tangent of the sum or difference of two angles for all angles, formulas for the sum or difference of two sines or two cosines, expressions for the functions of double and half angles, trigonometric identities and equations, theory of logarithms and the use of trigonometric tables, and the solution of right and oblique plane triangles. The circular measure of angles. The inverse trigonometric functions. Required of all Freshmen who do not take 15, Spherical Triogonometry; first term, 2 hours a week. Professors Gillespie, Bliss, Young, Dr. Hun, or Mr. Underhill.

15. Spherical Trigonometry and Applications of Trigonometry. Required of all Freshmen who do not take 13, Plane Trigonometry; first term, 2 hours a week. Professor Gillespie, or Dr. Hun.

16. Conic Sections, Treated from the Cartesian Standpoint. Required of all Freshmen, second term, 2 hours a week. Professors Gillespie, Bliss, Young, Dr. Hun, or Mr. Underhill.

21, 22. Conic Sections and Calculus. Required of all C.E. Sophomores; elective course, open to all Sophomores who are candidates for a bachelor's degree; both terms, 3 hours a week. Prerequisite to the Departments of Mathematics and Physics. Professors Thompson, Veblen, Young, or Dr. MacInnes.

23, 24. Supplementary Course in Geometry, Calculus, and Elementary Differential Equations. Required of all C. E. Sophomores, both terms, 2 hours a week. Professors Thompson, Gillespie, or Bliss.

31, 32. (Physics 33, 34.) Analytical Mechanics. The general principles of mechanics; the statics and dynamics of particles, rigid bodies, and fluids. Lectures. Junior course, both terms, 3 hours a week. Prerequisite courses: Mathematics 21, 22. Professors Jeans or Eisenhart.

33, 34. Integral Calculus, Analytic Solid Geometry, and Elementary Differential Equations. Junior course, both terms, 3 hours a week. Professor Thompson.

41, 42. Advanced Calculus and Elements of the Theory of Functions. Elementary course introductory to the notions and methods of modern mathematical analysis. Lectures. Senior course, both terms, 3 hours a week. Prerequisite to the graduate courses in mathematics and astronomy. Dean Fine.

43, 44. Infinitesimal Geometry. Introductory course

in the theory of curves in space and curved surfaces. Lectures. Senior course, both terms, 3 hours a week. Professor Eisenhart.

45, 46. (Physics 43, 44.) Theoretical Physics. A course in the mathematical theory of electricity and magnetism. *J. J. Thomson:* Elements of Electricity and Magnetism. Lectures. Senior course, both terms, 3 hours a week. Prequisite courses: Mathematics 21, 22; 31, 32. Professor Jeans.

THE PRO-SEMINARY IN MATHEMATICS. There is a pro-seminary in mathematics in which historical readings in mathematics are pursued under the direction of Dean Fine.

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101. Theory of Substitutions. Elementary theory of substitutions, of groups of substitutions and rotations. Application of the group theory to the solution of algebraic equations. *Netto; Bolza's* paper in the American Journal of Mathematics. Graduate course, first term, 3 hours a week. Prerequisite course: Advanced Algebra. Professor Gillespie.

102. The Invariant Theory of Binary Quantics, developed by the Symbolic Notation of Clebsch. Reference books: *Clebsch* and *Gordan.* Graduate course, second term, 3 hours a week. Prerequisite course: Advanced Algebra. Professor Gillespie.

103. Theory of Functions of a Complex Variable. Advanced course. Graduate course, first term, 3 hours a week. Dean Fine.

104. Theory of Ordinary Differential Equations. Graduate course, second term, 3 hours a week. Dean Fine.

106. Elliptic Functions. Graduate course, second term, 3 hours a week. Professor Thompson.

107. Infinitesimal Geometry. Graduate course, first term, 3 hours a week. Professor Thompson.

108. Infinitesimal Geometry; either (*a*) Finite and Infinitesimal Deformations of Surfaces, or (*b*) Congruences and Complexes. Graduate course, second term, 3 hours a week. Professor Eisenhart.

109, 110. Special Topics in Metrical Geometry. Historical readings of some of the memoirs of *Monge*, *Dupin*, *Gauss*, *Weingarten*, *Darboux*, and *Bianchi*. Graduate course, both terms, 3 hours a week. Professor Thompson.

115. (Physics 119.) Introduction to Molecular Dynamics. Graduate course, first term. Professor Jeans.

116. (Physics 120.) The Dynamical Theory of Gases. *Jeans:* Theory of Gases. Graduate course, second term. Professor Jeans.

VIII. DEPARTMENT OF PHYSICS

PROFESSORS BRACKETT, W. F. MAGIE, LOOMIS, AND McCLENAHAN; DR. ADAMS, DR. ROBINSON, MR. UPSON, MR. TRONE, MR. MARCH, AND MR. DAVISSON

11, 12. Elementary Experimental Physics. Beginners' course in physics, including classroom and laboratory work. *Gage:* Principles of Physics. For Litt.B., B.S., and C.E., Freshmen who have not offered physics for entrance, both terms, 3 hours a week. For this course a fee of $5 is charged, and a deposit on apparatus of $5 is required. Professor McClenahan, Dr. Robinson, Dr. Adams, Mr. Trone, Mr. March, and Mr. Davisson.

21, 22. General Physics. A descriptive course in general physics, including mechanics, illustrated by experiments. Syllabus. Sophomore required for A.B., both terms, 3 hours a week. Professor W. F. Magie.

23, 24. General Physics. Lectures, based on experimental demonstrations. Frequent written recitations. *Ames:* General Physics. Sophomore required for Litt.B., B.S., and C.E., both terms, 3 hours a week. Professor Loomis.

31, 32. Experimental Physics. A course in experimental physics, with lectures and laboratory work. *Miller:* Laboratory Physics. Reference books: *Stewart and Gee; Millikan.* Junior course, both terms, 3 hours a week. Professor Loomis and Dr. Robinson.

33, 34. (Mathematics 31, 32.) Analytical Mechanics. The general principles of mechanics; the statics and dynamics of particles, rigid bodies, and fluids. Lectures. Junior course, both terms, 3 hours a week. Prerequisite course: Mathematics 21, 22. Professors Jeans or Eisenhart.

41, 42 A. Experimental Physics. A course in experimental physics, with lectures and laboratory work. *Miller:* Laboratory Physics. Reference books: *Stewart and Gee; Millikan.* Senior course, both terms, 3 hours a week. Professor Loomis and Dr. Robinson.

41, 42 B. Theoretical Physics. A course in the elementary mathematical theories of heat and light. Lectures. Senior course, both terms, 3 hours a week. (Given after 1905-1906.) Prerequisite course: Mathematics 21, 22. Professor W. F. Magie and Dr. Adams.

43, 44. (Mathematics 45, 46.) Theoretical Physics. A course in the mathematical theory of electricity and magnetism. *J. J. Thomson:* Elements of Electricity and Magnetism. Lectures. Senior course, both terms, 3 hours a week. Prerequisite courses: Mathematics 21, 22; 31, 32. Professor Jeans.

A PRO-SEMINARY IN PHYSICS is open to qualified Seniors who have chosen the Physical Department. Professor Magie has been appointed Director for the year 1905-1906.

101, 102. Theory of Electricity. First term, *Mascart et Joubert:* L'Electricité et le Magnétisme; second term, *Drude:* Die Physik des Aethers. Graduate course, both terms, 3 hours a week. Professor Brackett.

103, 104. Absolute Measurements in Electricity and Magnetism. *Gray.* Graduate course, both terms, 4–6 hours a week. Professor McClenahan.

105, 106. Laboratory Practice in Physics. Graduate course, both terms, 3 hours a week. Professor McClenahan.

107. Theory of Heat. Graduate course, first term, 3 hours a week. Professor W. F. Magie.

108. Molecular Theory of Matter. Capillarity and the kinetic theory of gases. Graduate course, second term, 3 hours a week. Professor W. F. Magie.

109. Conduction of Electricity in Gases and Radioactivity. Graduate course, first term, 3 hours a week. (Given 1906–1907.) Dr. Adams.

110. Electrodynamics, based on the Corpuscular Theory of Electricity. Graduate course, second term, 3 hours a week. (Given 1906–1907.) Dr. Adams.

111. Elasticity. Graduate course, first term, 3 hours a week. Professor Loomis.

112. Theory of Potential. Graduate course, second term, 3 hours a week. (Given 1906–1907.) Professor Loomis.

114. Electromagnetic Theory of Light. Graduate course, second term, 3 hours a week. Dr. Robinson.

115, 116. Theory and Practice of Exact Measurements.

Graduate course, both terms, 3 hours a week. Professor Loomis.

117, 118. Research Work in Physics. Graduate course, both terms, number of hours indefinite. Professors W. F. Magie and Loomis

119. (Mathematics 115.) Introduction to Molecular Dynamics. Graduate course, first term. Professor Jeans.

120. (Mathematics 116.) The Dynamical Theory of Gases. *Jeans:* Theory of Gases. Graduate course, second term. Professor Jeans.

The physical laboratory is open throughout the week to graduate students.

IX. DEPARTMENT OF CHEMISTRY

PROFESSORS CORNWALL, McCAY, NEHER, HULETT, AND FOSTER; MR. WOODWARD, AND MR. DUSCHAK

11, 12. General Inorganic Chemistry. Experimental lectures and recitations on the elements and their compounds. *Newell:* Descriptive Chemistry. Required course for C.E. Freshmen, both terms, 3 hours a week. Professor McCay, assisted by Mr. Woodward.

21, 22. General Inorganic Chemistry. Experimental lectures on the elements and their compounds, supplemented by laboratory work. Two lectures, and two laboratory exercises of 3 hours each a week. The laboratory work is in part introductory to qualitative analysis. *Newell:* Descriptive Chemistry; or *Newth:* Inorganic Chemistry; *Smith and Keller:* Laboratory Manual. Sophomore elective, both terms, 3 hours a week. Prerequisite to all later courses in chemistry and mineralogy and to the Departments of Chemistry, Biology, and Geology. Professor McCay. Laboratory work, first term, Professor Hulett and Mr. Duschak; second term, Professor Foster.

31. Theoretical Chemistry. Theoretical chemistry, including applications to analytical chemistry. Lectures and written recitations. *Dobbin and Walker:* Chemical Theory; *Ostwald:* Outlines of Theoretical Chemistry; *Ostwald:* Scientific Foundations of Analytical Chemistry. Junior course, first term, 3 hours a week. Prerequisite course: General Inorganic Chemistry. Required in the Department of Chemistry. Professors McCay and Hulett.

32. Organic Chemistry. Introductory course devoted to the study of the properties, relationships, synthesis, and structure of the more important classes of acyclic compounds. Two lectures and one laboratory exercise each week. Junior course, second term, 3 hours a week. Prerequisite courses: General Chemistry and Qualitative Analysis. Prerequisite to all later courses in Organic Chemistry. Required in the Departments of Chemistry and Biology. Professor Neher, assisted by Professor Foster.

33. Qualitative Analysis. The study and practice of the methods for separating and detecting the more common bases and acids and their derivatives, followed by the analysis of simple and complex substances. The course involves about 8 hours of laboratory work, besides classroom exercises, each week. Junior course, first term, 3 hours a week. Prerequisite course: General Chemistry. Prerequisite to all later courses in chemistry. Required in the Departments of Chemistry and Biology. Professor Foster, assisted by Mr. Woodward.

34. Quantitative Analysis. The theory and practice of typical gravimetric and volumetric analyses, chiefly the analysis of simple salts. This course involves about nine hours of laboratory work, in addition to one or more class exercises, each week. Junior course,

second term, 3 hours a week. Prerequisite courses: General Chemistry and Qualitative Analysis. Prerequisite to the Senior courses in Quantitative Analysis and to Organic Chemistry 45. Required in the Department of Chemistry. Professor McCay, assisted by Mr. Woodward.

41. Quantitative Analysis. Continuation of Quantitative Analysis 34, including more complex substances, salts, minerals, and alloys. This course involves about nine hours of laboratory work, in addition to one or more class exercises, each week. Senior course, first term, 3 hours a week. Prerequisite courses: General Chemistry, Qualitative Analysis, Quantitative Analysis 34. Required in the Department of Chemistry. Professor Cornwall.

42. Volumetric Analysis. Standard methods in alkalimetry, acidimetry, the determination of metals, iodimetry, etc.; a course covering the principles and practice of the subject so far as possible and involving about nine hours of laboratory work, in addition to one or more class exercises, each week. Senior course, second term, 3 hours a week. Prerequisite courses: General Chemistry, Qualitative Analysis, and Quantitative Analysis 34 and 41. Required in the Department of Chemistry. Professor Cornwall.

43. Organic Chemistry. Continuation of Organic Chemistry 32, devoted in great part to a discussion of the cyclic compounds. Lectures and recitations. Senior course, first term, 3 hours a week. Prerequisite courses: General Chemistry, Qualitative Analysis, and Organic Chemistry 32. Required in the Department of Chemistry. Professor Neher.

44. Physical Chemistry. Lectures with frequent recitations, both oral and written. *Walker:* Introduction to Physical Chemistry. Senior course, second term,

3 hours a week. Prerequisite courses: General Physics and General Chemistry. Required in the Department of Chemistry. Professor Hulett.

45. Organic Preparations. The preparation and experimental study of typical carbon compounds, both acyclic and cyclic. About 10 hours of laboratory work each week in addition to class exercises. Senior course, open only to students taking Organic Chemistry 43, first term, 3 hours a week. Prerequisite courses: General Chemistry, Qualitative Analysis, Organic Chemistry 32, and Quantitative Analysis 34. Professor Neher, assisted by Professor Foster.

46. Laboratory work in Physical Chemistry. Molecular weight determination by vapor density, freezing point, and boiling point methods; study of solutions, solubility, conductivity, etc. Methods for determining heat of neutralization and velocities of reactions. About nine hours of laboratory work each week in addition to class exercises. *Ostwald–Luther:* Physiko Chemische Messungen. Senior course, open only to students taking Physical Chemistry 44, second term, 3 hours a week. Prerequisite courses: General Chemistry, Qualitative Analysis, Quantitative Analysis 34, and Organic Chemistry 32. Required in the Department of Chemistry. Professor Hulett, with Mr. Duschak.

101, 102. Advanced Qualitative Analysis and Research in Inorganic Chemistry. Graduate course, both terms, 3 hours a week. Professor McCay.

104. The Rare Elements, especially in their relation to minerals and rocks. Graduate course, second term, 3 hours a week. Prerequisite course: Quantitative Analysis. Professor Cornwall.

105, 106. Organic Chemistry. Lectures upon special topics, accompanied by the reading and discussion

of the literature. Graduate course, both terms, 3 hours a week. Prerequisite course: Elements of Organic Chemistry. Professor Neher.

107, 108. Advanced Laboratory Work in Organic Chemistry. Preparations, special methods of analysis and research. Graduate course, both terms, 3 hours a week. Professor Neher.

109. Electrochemistry. *Lehfeldt:* Electrochemistry. Graduate course, first term, 3 hours a week. Professor Hulett.

110. Chemical Dynamics. *Mellor:* Chemical Dynamics; *Nernst:* Theoretical Chemistry. Graduate course, second term, 3 hours a week. Professor Hulett.

111, 112. Research work in Physical Chemistry, especially in the field of Electrochemistry. Graduate course, both terms, 3 hours a week. Professor Hulett.

X. DEPARTMENT OF GEOLOGY

PROFESSORS CORNWALL, LIBBEY, SCOTT, PHILLIPS, SMYTH, AND FARR; MR. PARDOE, DR. SINCLAIR, AND MR. VAN INGEN

31. Geology. Beginners' course, covering the subject in outline and designed both for those who intend to pursue the subject further, and for those who desire merely to obtain a general knowledge of the science. *Scott:* Introduction to Geology. Reference book: *Chamberlin and Salisbury:* Geology. Junior course, first term, 3 hours a week. Prerequisite course: Chemistry or Biology. Prerequisite to the Geology of Senior year. Professors Scott, Farr, and Dr. Sinclair.

32. Physical Geology. Advanced course in dynamical and structural geology. Lectures, laboratory exercises, and field work during vacations. *Chamberlin*

and Salisbury: Geology. Junior course, second term, 3 hours a week. Prerequisite courses: Geology 31, 33. Prerequisite to the Geology of Senior year. Professors Smyth, Farr, and Mr. van Ingen.

33. Mineralogy. Lectures, recitations, and practice in theoretical, descriptive, and determinative mineralogy; a study especially of rock-forming minerals and the commoner minerals in general. Junior course, first term, 3 hours a week. Prerequisite course: General Chemistry. Prerequisite to advanced Geology. Professor Cornwall.

34. Physical Geography. (*a*) Morphology of the Continents; (*b*) Oceanography. *Guyot:* Physical Geography; *Tarr:* Elementary Physical Geography; *Mill:* Realm of Nature. Junior course, second term, 3 hours a week. Prerequisite to Geology 41 and 43, and to Physical Geography 44. Professor Libbey.

41, 42. Historical Geology. Advanced course consisting of lectures together with laboratory exercises and field work. *Kayser:* Textbook of Comparative Geology; *Dana:* Manual; *Geikie:* Textbook. Senior course, both terms, 3 hours a week. Prerequisite courses: Geology 31 and 34, Biology 31 and 32. Professor Scott and Mr. van Ingen.

43. Stratigraphical Geology. Lectures, laboratory work, field work, and reports. *Marr:* Principles of Stratigraphical Geology. Reference books: Bulletins of United States Geological Survey; *Dana:* Manual; *Giekie:* Textbook; *Frech:* Lethæa. Senior course, first term, 3 hours a week. Prerequisite courses: Geology 31, 32, 33, 34; and Biology 31, 32. Mr. van Ingen.

44. Physical Geography. (*c*) Climatology *Guyot:* Physical Geography; *Davis:* Elementary Meteorology. Senior course, second term, 3 hours a week.

Prerequisite course: Physical Geography 34. Professor Libbey.

45. Invertebrate Paleontology. Lectures and laboratory work on invertebrate fossils and on fossil faunas. *Zittel-Eastman:* Textbook of Paleontology, Vol. I. Senior course, first term, 3 hours a week. Prerequisite courses: Geology 31 and Biology 31. Mr. van Ingen.

46. Vertebrate Paleontology. Lectures and laboratory work on fossil vertebrates. *Smith-Woodward:* Vertebrate Paleontology; *Zittel:* Handbuch der Paleontologie. Senior course, second term, 3 hours a week. Prerequisite courses: Biology 31, 32, and Osteology. Professors Scott and Farr.

47. Mineralogy, Crystallography, and the Optical Properties of Crystals. *Groth:* Krystallographie; *Rosenbusch:* Mikroskopische Physiographie. Senior course, first term, 3 hours a week. Prerequisite course: Mineralogy 33. Professor Phillips.

48. Mineralogy. Petrographical mineralogy. A thorough study of minerals according to petrographic methods, especially their optical properties; and also the study of rocks. Senior course, second term, 3 hours a week. Prerequisite course: Mineralogy 47. Professors Cornwall, Phillips, and Smyth.

Summer Course in Field Geology. Juniors who contemplate electing the major part of their Senior studies in the Department of Geology are strongly advised to take part in the optional field work which will be offered during a portion of each summer vacation.

101. Economic Geology. Graduate course, first term, 3 hours a week. Professor Farr.

102, 103. Stratigraphical Geology. Research course.

Field and laboratory work, involving study and description of the stratigraphy, paleontology, and structure of the sedimentary rocks of some particular district, terminating in the preparation of a report according to official standards. Graduate course, given during the summer vacation and both terms, number of hours indefinite. Mr. van Ingen.

XI. DEPARTMENT OF BIOLOGY

PROFESSORS MACLOSKIE, SCOTT, RANKIN, McCLURE, DAHLGREN, AND FARR; AND MR. SILVESTER

31, 32. General Biology. Lectures, laboratory work, and recitations. Discussions of the history, theories, and principles of biology. A study of typical forms illustrating structure and function. A review of the relationship of animals, and exercises on the identification of species and classification. Reference books: *Sedgwick and Wilson, Parker, Jordan and Kellogg.* Junior course, both terms, 3 hours a week. Prerequisite to the subsequent courses in Biology. Professor Rankin.

33. Histology. A study of protoplasm, the cell, and the tissue as they underlie animal and vegetable life. Reference books: *Schnider:* Histology; *Wilson:* Cell. Junior course, first term, 3 hours a week. Professor Dahlgren.

34. Botany. Lectures and recitations on the history of botany and the biological principles involved in the physiology and development of plants. Laboratory work on the structure and functions of plants. Exercises on the analysis and classification of the higher groups of plants. Reference books: *Coulter, Stevens, Campbell.* Junior course, second term, 3 hours a week. Prerequisite to the subsequent courses in Senior Biology. Professor Rankin.

41. Comparative Anatomy of Vertebrates. Lecture and laboratory course. Lectures on the comparative anatomy of the organ systems of vertebrates, and dissection of the following forms: *Amphioxus*, the dog-fish, the pigeon, and a mammal. *Marshall and Hurst:* Practical Zoölogy. Reference books: *Kingsley:* Vertebrate Zoölogy; *Wiedersheim:* Vergleichende Anatomie der Wirbelthiere. Senior course, first term, 3 hours a week. Prerequisite courses: Junior courses in Biology. Professor McClure and Mr. Silvester.

42. Vertebrate Embryology. Lecture and laboratory course. A comparative study of the development of vertebrates. *Hertwig:* Textbook of Embryology; *Minot; Marshall.* Senior course, second term, 3 hours a week. Professor McClure and Mr. Silvester.

43. Comparative Osteology. Ontogeny and comparative structure of the skeleton of the different classes. Exercises in descriptive work. Each student shall prepare a thesis on a skeleton specially assigned for his study. *Flower:* Osteology of the Mammalia; *Reynolds:* The Vertebrate Skeleton. The monographs on the skull, the shoulder-girdle, human anatomy. Senior course, first term, 3 hours a week. Prerequisite course: Junior course in Biology. Professor Macloskie.

44. General Physiology, with comparative treatment of functions in plants and animals, and simple experiments and functional calculations. *Kirke:* Handbook of Physiology, by Halliburton. Reference books: Text-book of Physiology, edited by Schäfer; *Pfeffer:* Physiology of Plants. Senior course, second term, 3 hours a week. Prerequisite course; Junior course in Biology. Professor Macloskie.

101, 102. Cytology, Histogenesis, and Comparative His-

tology. Lectures and the practical study of the cell and its organs. Comparative studies of several tissues. Histogenesis, repair and regeneration of the tissues. Methods of research and thesis work. Graduate course, both terms, 3 hours a week. A fee of $25 is charged for apparatus and reagents. Professor Dahlgren.

103. Systematic Botany of the Vascular Plants. Structure as related to description and classification. Exercises in plant-description, rules of nomenclature, and the characters of the larger families of Angiosperms. *Campbell:* University Text-book of Botany; *Bentham and Hookes:* Genera of Plants; *Engler and Prantl:* Pflanzen-Familien. Graduate course, first term, 3 hours a week. Prerequisite to Biology 104. Professor Macloskie.

104. Systematic Botany of the Vascular Plants; second course. Gymnosperms and the vascular cryptogams; palæo-botany; phytogeography; field-work on the local flora. *Campbell:* University Text-book of Botany; *Britton:* Manual of Flora; *Coulter and Chamberlain:* Gymnosperms and Angiosperms. Graduate course, second term, 3 hours a week. Prerequisite course: Biology 103. Professor Macloskie.

105, 106. The Morphology and Phylogeny of the Organ Systems of Vertebrates. Graduate research course, both terms, 3 hours a week. Professor McClure.

107. Comparative Morphology of the Invertebrates. Graduate course, first term, 3 hours a week. Professor Rankin.

109. Paleontology of Mammals. Graduate course, first term, 3 hours a week. Professor Scott.

110. Paleontology. The morphology and phylogeny of living and extinct vertebrates other than mammals. Graduate course, second term, 3 hours a week. Professor Farr.

111, 112. An advanced graduate course in biology has been established in connection with the geological, zoological, botanical, and chemical departments, the objects in view being: (1) to foster a spirit of original research; (2) to qualify advanced students to become teachers. This course is open to graduates, also to students presenting diplomas from recognized medical schools.

It is not restricted to students who are candidates for a higher degree, if the applicants possess sufficient elementary knowledge to profit by the instruction.

This graduate course is of a comprehensive and elastic character, and according to the requirements and wishes of different students, includes much laboratory work under the direction of the instructor. At the close of the first term, the student may select a department of special study for his thesis, which must present the results of original work.

COURSES FALLING UNDER DIVISION D, BUT WHICH ARE NOT INCLUDED IN ANY ONE OF THE PRECEDING DEPARTMENTS

11. Personal Hygiene. Elementary anatomy and physiology; the general care of the body; the principles of exercise, food, clothing, and ventilation; the action of tobacco and alcohol; avoidable diseases and their consequences; the essentials of first aid. Required of all Freshmen, candidates for a bachelor's degree, first term, 1 hour a week. General Woodhull.

23. Graphics. Elementary Mechanical Drawing. A beginners' course. *Willson:* Theoretical and Practical Graphics. Elective, open only to B.S. and Litt.B. Sophomores who elect Conic Sections 21A at the same time; first term, 3 hours a week. Prerequisite to

Graphics 24. Professor F. N. Willson and Mr. McWilliams.

24. Graphics. Curve construction, structure drawing, intersections, etc. Lectures. *Willson:* Graphics; *Willson:* Practical Engineering Drawing. Elective course, open only to B.S. and Litt.B. Sophomores, who have elected both Conic Sections 21A and Graphics 23, and who elect Calculus 22 during the second term; second term, 3 hours a week. Professor F. N. Willson and Mr. McWilliams.

31. Elementary Astronomy. Mainly descriptive, exhibiting the leading facts of astronomy and an elementary explanation of the methods by which they are ascertained. Recitations on textbook, with lectures. *Young:* Manual of Astronomy. Junior course, first term, 3 hours a week. Prerequisite to Senior Astronomy. Professor Lovett.

31. Graphics. Descriptive Geometry. A lecture and textbook course on the fundamental problems of the point, line, and plane, followed by their application to developable, double-curved, and warped surfaces, and including trihedrals and spherical projections, practically applied in the solution of a large number of problems on the drawing-board. *Willson:* Descriptive Geometry. Junior course, first term, 3 hours a week. Professor Willson and Mr. McWilliams.

32. Geodesy. Surveying. A general outline of methods of surveying and their uses. *Raymond:* Surveying. Junior course, second term, 3 hours a week. Professor Harris.

32. Graphical Statics. Review of general principles of force polygons and of funicular polygons. Extensions to complex problems. Illustrations and drill in the solution of numerous examples drawn from statical and dynamical engineering involving direct stresses,

and flexural, shearing, and torsional stress; also moments of inertia, centers of gravity of irregular figures, and fluctuations of energy of machines. Lectures, aided by *Merriman and Jacoby*, Part II. Reference book: *Eddy:* New Constructions in Graphical Statics. Junior course, second term, 3 hours a week. Prerequisite courses: Graphics, Physics. The Instructor in Civil Engineering, under the direction of Professor McMillan.

48. History of Natural Philosophy. Senior course, second term, 3 hours a week. Professor Brackett. (This course falls in Divisions A and D.)

41, 42. Practical Astronomy (elementary course); determination of time, latitude, and azimuth, work with the equatorial on double stars, variable stars, and the sun. Classroom exercises, with the necessary observatory work. Senior course, both terms, 3 hours a week. Dr. Russell.

41. Theory of Prime Motors. General relations of the factors of energy and power considered analytically and graphically; reduction of inertia and all resistances to driving point; efficiency; general theory of water motors (rotative); thermal motors:—combustion, calorific powers of fuels, theory of chimney-draft, efficiency of generator. *Rankine:* Steam Engine and Other Motors. Reference books: *Anthony and Brackett; Ripper:* Steam Engine; *Weisbach:* Hydraulic Motors. Senior course, first term, 3 hours a week, with laboratory work. Prerequisite courses: Physics, Applied Mechanics (Analytical and Graphical), Chemistry. Prerequisite to Theory of Prime Motors 42. Professor McMillan.

42. Theory of Prime Motors. Recitations and lectures, general equations of thermodynamics, expansion and compression curves of gases and vapors, diagrams

of energy—[p. v. and t. e.]; modifying causes of diagrams; compound engines; explosive or combustion engines:—Otto cycle; compression and expansion curves; combustion engines with carburetting. *Rankine:* Steam Engine and Other Motors. Reference books: *Anthony and Brackett; Ripper; Clerk:* Gas Engine. Senior course, second term, 3 hours a week, with laboratory work. Prerequisite courses: Physics, Applied Mechanics (Analytical and Graphical), Chemistry. Professor McMillan.

43. Celestial Mechanics. Elementary account of the methods of dynamical astronomy, with special reference to the problem of three bodies. Lectures with collateral reading. Prerequisite course: Analytical Mechanics. Senior course, first term, 3 hours a week. (Not given in 1905-1906.)

44. History of Astronomy. Senior course, second term, 3 hours a week. (Not given in 1905-1906.)

101, 102. Theoretical Astronomy and the Calculation of Orbits. *Watson:* Theoretical Astronomy; *Oppolzer:* Bahnbestimmung; *Klinkerfues:* Theoretische Astronomie. Graduate course, both terms, 3 hours a week. Dr. Dugan.

103, 104. Practical Astronomy, Including the Theory of Instruments. Extended course. Thorough study of the determination of time, latitude, and azimuth; work with the equatorial on double stars, variable stars, and the sun. *Chauvenet:* Practical Astronomy. Graduate course, both terms, 3 hours a week. Dr. Dugan.

105. Theory and Method of Reduction of Photographic Star Plates. Determination of star-places from photographic plates, stellar parallax, and proper motion. Graduate course, first term, 3 hours a week. Dr. Russell.

106. Spectroscopy. The theory and use of the spectroscope as an implement of astronomical investigation, with practical work in the observatory. Graduate course, second term, 3 hours a week. Dr. Russell.

107, 108. Celestial Mechanics. An introduction to the general problems of the motions of the heavenly bodies. Lectures and collateral reading in the treatise of *Tisserand*. Graduate course, both terms, 3 hours a week. Professor Lovett.

109, 110. Modern Theories of Celestial Mechanics. An account of the recent developments inspired by the works of *Poincaré* Lectures, supplemented by the treatise of *Poincaré* and *Charlier*. Graduate course, both terms, 3 hours a week. (Not given in 1905-1906.) Professor Lovett.

Students who contemplate entering the profession of medicine may combine the electives in physics, chemistry, and biology, so as to receive when graduating a special certificate recommending them to medical colleges.

DEPARTMENT OF CIVIL ENGINEERING

PROFESSORS MCMILLAN, WILLSON, SMITH, AND HARRIS; MR. GREENWOOD, MR. MCWILLIAMS, AND MR. SINCERBEAUX

THE FRESHMAN YEAR

11, 12. [English 11, 12.] Selected English authors for special study and for general reading. The principles of composition and rhetoric will be derived therefrom. Frequent reports on assigned reading. Required of all C. E. Freshman, both terms, 2 hours a week. Professor Covington, assisted by Instructors in the Department of English.

13. 14. [Physics 11, 12.] Elementary Experimental Physics. Beginners' course in physics, including classroom and laboratory work. *Gage:* Principles of Physics. Required of all C. E. Freshmen who have not offered physics for entrance, both terms, 3 hours a week. For this course a fee of $5 is charged, and a deposit on apparatus of $5 is required. Professor McClenahan, assisted by Instructors in the Department of Physics.

15, 16. [German 11, 12.] Beginners' German. Grammar, reading, and composition. Required of all C. E. Freshmen who have not offered German for entrance (two of the three subjects physics, German, and French being required), both terms, 3 hours a week. Dr. Beam.

17, 18. [German 13, 14.] German Prose and Poetry. Reading of selected works, with drill in grammar

and exercises in composition. Required of all C. E. Freshman (two of the three subjects physics, German, and French being required) who have offered German A for entrance, both terms, 3 hours a week. Professor Blau, Dr. Lyon, and Dr. Richards.

19, 20. [French 11, 12.] Beginners' French. Grammar, composition, and reading. *Fraser and Squair:* Grammar. Required of all C. E. Freshmen who have not offered French for entrance (two of the three subjects physics, German, and French being required), both terms, 3 hours a week. Professor Northup and Mr. Austin.

21, 22. [French 13, 14.] Freshman French. This course consists of reading and practical exercises in French syntax and composition, with collateral reading. Required of all C. E. Freshmen (two of the three subjects physics, German, and French being required), who have offered French A for entrance, both terms, 3 hours a week. Professors Critchlow, Buffum, and Mr. Mathews.

23, 24. [Mathematics 11, 12.] Selected Portions of Algebra and Elementary Theory of Equations. The elementary treatment of infinite series, undetermined co-efficients, the binomial theorem for fractional and negative exponents, the theory of logarithms, determinants, and the elements of the theory of equations, including Horner's method for solving numerical equations. *Fine:* College Algebra. Required of all C. E. Freshmen, both terms, 2 hours a week. Dean Fine, Professors Eisenhart, Veblen, Dr. Stromquist, Dr. MacInnes, or Mr. Morrow.

25. [Mathematics 13.] Plane Trigonometry. Definitions of the six trigonometric functions as ratios, relations between these six functions, values of the functions for 0°, 30°, 45°, 60°, 90°, 120°, 135°, etc., etc.,

formulas for the sine, cosine, and tangent of the sum or difference of two angles for all angles, formulas for the sum or difference of two sines or two cosines, expressions for the functions of double and half angles, trigonometric identities and equations, theory of logarithms and the use of trigonometric tables, and the solution of right and oblique plane triangles. The circular measure of angles. The inverse trigonometric functions. Required of all C. E. Freshmen who do not take 27, Spherical Trigonometry; first term, 2 hours a week. Professors Gillespie, Bliss, Young, Dr. Hun, or Mr. Underhill.

27. [Mathematics 15.] Spherical Trigonometry and Applications of Trigonometry. Required of all C. E. Freshmen who do not take 25, Plane Trigonometry; first term, 2 hours a week. Professor Gillespie, or Dr. Hun.

28. [Mathematics 16.] Conic Sections, Treated from the Cartesian standpoint. Required of all C. E. Freshmen, second term, 2 hours a week. Professors Gillespie, Bliss, Young, Dr. Hun, or Mr. Underhill.

29, 30. [Chemistry 11, 12.] General Inorganic Chemistry. Experimental lectures and recitations on the elements and their compounds. *Newell:* Descriptive Chemistry. Required of all C. E. Freshmen, both terms, 3 hours a week. Professor McCay, assisted by Mr. Woodward.

32. Geodesy. Land surveying. Theory of chain and compass surveying. Surveys of public lands. Leveling. Lectures and recitations. *Staley-Gillespie:* Land Surveying. Required of all C. E. Freshmen, second term, 2 hours a week. Professor Harris and Mr. Sincerbeaux.

33. Graphics. Elementary technical drawing. Line and brush work, conventional representations, letter-

ing, trochoidal curves, oblique and orthographic projections, working drawings, and tracing. *Willson:* Theoretical and Practical Graphics. Required of all C. E. Freshmen, first term, 2 hours a week. Professor Willson and Mr. McWilliams.

THE SOPHOMORE YEAR

35, 36. [Physics 23, 24.] General Physics. Lectures based on experimental demonstrations. Frequent written recitations. *Ames:* General Physics. Required of all C. E. Sophomores, both terms, 3 hours a week. Professor Loomis.

37, 38. [Mathematics 21, 22.] Conic Sections and Calculus. Required of all C. E. Sophomores, both terms, 3 hours a week. Professors Thompson, Veblen, Young, or Dr. MacInnes.

39, 40. [Mathematics 23, 24.] Supplementary Course in Geometry, Calculus, and Elementary Differential Equations. Required of all C. E. Sophomores, both terms, 2 hours a week. Professors Thompson, Gillespie, or Bliss.

43. Mineralogy. Determinative mineralogy (blowpipe analysis), preceded by a short course of lectures, including elements of crystallography. *Cornwall:* Manual of Blowpipe Analysis and Determinative Mineralogy. Required of all C. E. Sophomores, first term, 3 hours a week. Professor Phillips.

44. Geology. Elementary course. General outline of the subject, including dynamical, structural, and historical geology. *Scott:* Introduction to Geology. Reference book: *Chamberlin and Salisbury:* Geology. Required of all C. E. Sophomores, second term, 3 hours a week. Professor Farr.

45. Graphics. Advanced projection drawing, intersections, development, model making, and working draw-

ings. Required of all C. E. Sophomores, first term, 3 hours a week. Professor Willson.

46. Graphics. (*a*) Structure drawing. Detail and assembly drawings of bridges, etc., from blue prints or actual measurement. Required of all C. E. Sophomores, second term, 2 hours a week. (*b*) Graphic solution of kinematic and projective problems, higher plane curves, cams, crystal projection, and mechanisms. Required of all C. E. Sophomores, second term, 1 hour a week. Professor Willson.

47. Geodesy. Line and angle measurements, farm surveying, field and office work, and platting of field notes. Topographical drawing in pen work and colors, lettering, map of farm survey. *McMillan-Smith:* Topographical Drawing. Required of all C. E. Sophomores, first term, 3 hours a week. Professor Harris and Mr. Sincerbeaux.

48. Geodesy. Structure and adjustment of engineer's field instruments, leveling, contouring, triangulation, and transit work. Lectures, recitations, field and office work. *Staley-Gillespie:* Land Surveying. Required of all C. E. Sophomores, second term, 3 hours a week. Professor Harris and Mr. Sincerbeaux.

THE JUNIOR YEAR

49, 50. [Mathematics 31, 32.] Analytical Mechanics. The general principles of mechanics; the statics and dynamics of particles, rigid bodies, and fluids. Lectures. Required of all C. E. Juniors, both terms, 3 hours a week. Professors Jeans or Eisenhart.

51. General Astronomy. Elementary astronomy for engineers. Lectures and recitations from text-book, with special reference to preparation for course 56. *Young:* Manual of Astronomy. Required of all C. E. Juniors, first term, 3 hours a week. Professor Lovett.

52. Practical Astronomy. Determination of time, latitude, and azimuth. Practice with the transit instrument, sextant, and theodolite. Determination of latitude with the zenith telescope. Required of all C. E. Juniors, second term, 3 hours a week, with the necessary observatory work. Dr. Dugan.

53. Graphical Statics. Review of the general principles of force polygons and of funicular polygons. Applications to the solution of direct, flexural, shearing, and torsional stresses, determination of centers of gravity. and moments of inertia. General and special applications to girders and framed structures non-continuous and continuous. *Merriman and Jacoby:* Part II. Reference book: *Eddy:* New Constructions in Graphical Statics. Required of all C. E. Juniors, first term, 3 hours a week. Under the direction of Professor McMillan.

54. Mechanics of Materials. Strength and elasticity of materials and applications to beams, columns, and shafts. Required of all C. E. Juniors, second term, 4 hours a week. Professor Smith.

55. Geodesy. Town, mine, and hydrographic surveying. Barometric leveling, surveying with the stadia and gradienter. Solar transit. Lectures, recitations, and field work. *Raymond:* Surveying; *Staley-Gillespie:* Land Surveying. Required of all C. E. Juniors, first term, 4 hours a week. Professor Harris.

56. Geodesy. Railroad engineering. Lectures, recitations, and field work. *Searles:* Field Engineering. Required of all C. E. Juniors, second term, 5 hours a week. Professor Harris.

57. Graphics. Descriptive geometry, pure, and also as applied to developable, double-curved, and warped surfaces, and including spherical projections and trihedrals. Lectures, text-book work, and practical

drafting. *Willson:* Descriptive Geometry. Required of all C. E. Juniors, first term, 2 hours a week. Professor Willson and Mr. McWilliams.

58. Graphics. Shadows and perspective valve-motion. Lectures, illustrated with lantern slides, text-book work, and practical problems on the drawing board. *Willson:* Shadows and Perspective; *Halsey:* Slide Valve Gears. Required of all C. E. Juniors, second term, 3 hours a week. Professor Willson and Mr. McWilliams.

59. Materials of Construction. Descriptive course. Required of all C. E. Juniors, first term, 2 hours a week. Professor Smith.

Geodesy. Summer field practice. Extended field operations and office work. Taken at the two weeks following the close of the second term, between Junior and Senior years. Professor Harris and Mr. Sincerbeaux.

THE SENIOR YEAR

61. Framed Structures. Analytical and graphical determination of stresses in girders and simple trusses, including the design of details. The theory of the suspension bridge and of the swing bridge. *Johnson:* Framed Structures. Reference books: Blue Prints of Shop Drawings. Required of all C. E. Seniors, first term, 5 hours a week. Professor McMillan.

62. Framed Structures. The theory of cantilever bridges, of arched bridges, and of steel-frame buildings. *Johnson:* Framed Structures. Required of all C. E. Seniors, second term, 3 hours a week. Professor McMillan.

63. Theory of Prime Motors. General relations of the factors of energy and power considered analytically and graphically: reduction of inertia and all resist-

ances to driving point; efficiency; general theory of water motors (rotative); thermal motors:—combustion, calorific powers of fuels, theory of chimney-draft, efficiency of generator. *Rankine:* Steam Engine and Other Motors. Reference books: *Anthony and Brackett; Ripper:* Steam Engine; *Weisbach:* Hydraulic Motors. Required of all C. E. Seniors, first term, 3 hours a week, with laboratory work. Prerequisite courses: Physics, Applied Mechanics [analytical and graphical], Chemistry. Prerequisite to Theory of Prime Motors 64. Professor McMillan.

64. Theory of Prime Motors. Recitations and lectures, general equations of thermodynamics; expansion and compression curves of gases and vapors, diagrams of energy—[p.v. and t.e.]; modifying causes of diagrams; compound engines; explosive or combustion engines: —Otto cycle; compression and expansion curves; compression curves of gases and vapors, diagrams of combustion engines with carburetting. *Rankine:* Steam Engine and Other Motors. Reference books: *Anthony and Brackett; Ripper; Clerk:* Gas Engine. Required of all C. E. Seniors, second term, 3 hours a week. Prerequisite courses: Physics, Applied Mechanics (analytical and graphical); Chemistry. Professor McMillan.

65. Hydraulics. Theory. *Merriman:* Treatise of Hydraulics. Required of all C. E. Seniors, first term, 2 hours a week. Professor Smith or Mr. Greenwood.

66. Water Works. Outline of the planning and construction of systems of water supply. Lectures. Reference book: *Turneaure and Russell:* Public Water Supplies. Required of all C. E. Seniors, second term, 2 hours a week. Professor Smith.

67. Graphics. Stereotomy. Descriptive geometry ap-

plied to the solution of such problems in stone cutting as are likely to arise in railroad or architectural construction. A lecture and drafting-room course. Required of all C. E. Seniors, first term, 2 hours a week. Professor Willson.

68. Sewerage and Drainage. The sewerage and drainage of buildings and towns, including sewage purification and disposal. *Folwell:* Sewerage. Required of all C. E. Seniors, second term, 2 hours a week. Professor McMillan.

69. Geodesy. Railroad engineering: preliminary and location surveys of routes, staking out for construction, and estimating cost. Field and office work. *Searles:* Field Engineering. Reference book: *Wellington:* Railway Location. Required of all C. E. Seniors, first term, 3 hours a week. Professor Harris.

70. Roads. Traction on different surfaces. Considerations affecting the value of a road improvement; the location of country roads; road construction and maintenance. Pavements, materials and qualities, tests of materials. *Spalding.* Required of all C. E. Seniors, second term, 2 hours a week. Professor McMillan.

72. Masonry Structures. The theory of the stability of masonry structures. Required of all C. E. Seniors, second term, 2 hours a week. Professor Smith and Mr. Greenwood.

74. Methods of Construction. Study of the methods employed in the building of enigneering structures. Foundations. *Baker:* Masonry Construction. Required of all C. E. Seniors, second term, 2 hours a week. Professor Smith and Mr. Greenwood.

75. Laboratory Work in Civil Engineering. The erection of structures, the gauging of water, the testing of motors and of materials of construction. Required

of all C. E. Seniors, first term, 2 hours a week. Professor McMillan and Professor Smith.

76. Laboratory Work in Civil Engineering. Selected tests. Required of all C. E. Seniors, second term, 1 hour a week. Professor McMillan and Professor Smith.

DEPARTMENT OF ELECTRICAL ENGINEERING

PROFESSORS BRACKETT AND McCLENAHAN, AND MR. UPSON

The course in Electrical Engineering is designed to furnish instruction in the theory of electricity and in its application in the arts and industries. The special course of study in electricity occupies two years of graduate work.

REQUIREMENTS FOR ADMISSION

I. Graduates of the University, either in the Academic Department or in the John C. Green School of Science, who have taken satisfactory courses in French and German and in mathematics, including calculus and differential equations, will be admitted to the course in Electrical Engineering without examination.

II. Applicants who are graduates of other institutions must satisfy the professors in charge that they have sufficient knowledge of mathematics, including calculus and differential equations, of physics and chemistry, and of French and German, to enable them to pursue the course with profit.

III. Applicants who are not graduates of any institution may be admitted to the course if they show their fitness for it on examination in mathematics, including calculus, differential equations, analytical mechanics, mechanical drawing and descriptive geometry, general and analytical chemistry, physics, geology, astronomy, English language and literature, French and German.

IV. Students not candidates for a degree may be received by special arrangement with the professors in charge.

COURSE OF STUDY

First Year:—The Mathematical Theory of Electricity. *Mascart et Joubert:* L'Electricité et le Magnétisme; with references to *Faraday, Maxwell, Hertz, et als.*

Electrical Measurements. *Gray*: Absolute Measurements in Electricity and Magnetism; *Ewing:* Magnetic Induction in Iron and Other Metals. Two days a week are left free for elementary electrical measurements, with reference to *Stewart and Gee, Kohlrausch, Gray, Ewing, et als.* Theory of Electro-Motors. *Thompson:* Dynamo-Electric Machinery. Machine Designing.

Strength of Materials, three hours a week; Mechanism, two hours a week; and Theory of Machines, four hours a week for half the year, are taken with the classes in the Civil Engineering Department.

Second Year:—Study of the Physics of the Ether as Related to Electric and Magnetic Phenomena. *Drude:* Physik des Aethers.

Theory and practical applications of alternate currents. *Fleming:* Alternate Current Transformer; *Thompson:* Polyphase Electric Currents; with reference to *Ferraris, Steinmetz, et als.*

Transformer and machine designing.

Collateral lectures on the technical applications of electricity in telegraphy, telephony, electro-metallurgy and electro-chemistry, electric lighting, transmission of power, etc.

Advanced Electrical Measurements and Electrical Testing.

In addition to these courses a meeting is held once a week, at which reports on the current electrical literature are made by the students.

DEGREE

On completion of this course the student is entitled to apply for the degree of Electrical Engineer. With his application he must present a thesis on some subject connected with electrical science.

FRESHMAN FIRST TERM SCHEDULE, 1905-1906

	MONDAY		TUESDAY		WEDNESDAY	
8	Alg III	V S1	Alg III	V S1	Trig I	G D19
	Trig V	Mc D19	Trig V	Mc D19	Trig III	Y S1
	Trig VII	U D28	Trig VII	U D28	Alg IX	B D29
	Alg XI	Mo D29	Alg XI	Mo D29	Trig XI	U D28
	Alg XV	S S7	Alg XV	S S7	Trig XIII	Mc D18
	Trig XVII	H D18	Trig XVII	H D18	Alg XVII	S S7
			Hygiene I	D8	Hygiene II	D8
9	Alg IV	V S1	Alg IV	V S1	Trig II	G D19
	Trig VI	Mc D19	Trig VI	Mc D19	Trig IV	Y S1
	Trig VIII	U D28	Trig VIII	U D28	Alg X	Mo D29
	Alg XII	Mo D29	Alg XII	Mo D 29	Trig XII	U D28
	Alg XVI	S S7	Alg XVI	S S7	Trig XIV	H D18
	Trig XVIII	H D18	Trig XVIII	H D18	Alg XVIII	S S7
10	A Latin I	(D16)	A Latin I	Wct D16	A Latin I	Wct D16
	A Latin III	Al D17	A Latin III	(D17)	A Latin III	Al D17
	A Latin V	G D14	A Latin V	G D14	A Latin V	(D14)
	A Greek VII	J D26	A Greek VII	J D26	A Greek VII	J D26
	A Greek II		A Greek IV		A Greek VI	
	S Physics I	S 23	S Physics I	S23	S Physics I	S23
	S French I	S 3	S French I	S3	S French I	S3
	S French III	D19	S French III	D19	S French III	D19
	S German I	D29	S German I	D29	S German I	D29
	S German III	D18	S German III	D18	S German III	D18
11	A Latin II	(D26)	A Latin II	G D26	A Latin II	G D26
	A Latin IV	Al D17	A Latin IV	(D17)	A Latin IV	Al D 17
	A Latin VI	Wct D16	A Latin VI	Wct D16	A Latin VI	(D16)
	A Greek I		A Greek III		A Greek V	
	E Chemistry	C	E Chemistry	C	E Chemistry	C
	L Physics II	S23	L Physics II	S23	L Physics II	S23
	L French II	S3	L French II	S 3	L French II	S3
	L French IV	D19	L French IV	D19	L French IV	D19
	L German II	D29	L German II	D29	L German II	D29
	L German IV	D18	L German IV	D18	L German IV	D18
12	A Greek III	L D13	A Greek I	Pr D26	A Greek I	Pr D26
	A Greek V	K D4	A Greek V	K D4	A Greek III	L D13
	A Latin VII	F D12	A Latin VII	F D12	A Latin VII	F D12
	L Latin XI	(D5)	L Latin XI	A D5	L Latin XI	A D5
	L Latin XIII	B D16	L Latin XII	(D16)	L Latin XIII	B D16
	L Latin XV	C D17	L Latin XV	C D17	L Latin XV	(D17)
1	A Greek IV	L D13	A Greek II	K D4	A Greek II	K D4
	A Greek VI	M D26	A Greek VI	M D26	A Greek IV	L D13
	L Latin XII	(D17)	L Latin XII	C D17	L Latin XII	C D17
	L Latin XIV	BD16	L Latin XIV	(D16)	L Latin XIV	B D16
	L Latin XVI	A D5	L Latin XVI	A D5	L Latin XVI	(D5)
	E Graphics		E Graphics			
2	E Graphics	S10	E Graphics	S10		

FRESHMAN FIRST TERM SCHEDULE, 1905–1906

	THURSDAY		FRIDAY		SATURDAY	
8	Trig I	G D19	Alg I	F(E)D19	Alg I	F(E) D19
	Trig III	Y S1	Alg V	B S1	Alg V	B S1
	Alg IX	B D29	Alg VII	S S7	Alg VII	S S7
	Trig XI	U D28	Trig IX	U D28	Trig IX	U D28
	Trig XIII	Mc D18	Alg XIII	Mo D29	Alg XIII	Mo D29
	Alg XVII	S S7	Trig XV	H D18	Trig XV	H D18
			Hygiene III	D8		
9	Trig II	G D19	Alg II	F(E) D19	Alg II	F(E) D19
	Trig IV	Y S1	Alg VI	B S1	Alg VI	B S1
	Alg X	Mo D29	Alg VIII	S S7	Alg VIII	S S7
	Trig XII	U D28	Trig X	U D28	Trig X	U D28
	Trig XIV	H D18	Alg XIV	Mo D29	Alg XIV	Mo D29
	Alg XVIII	S S7	Trig XVI	H D18	Trig XVI	H D18
10	A Latin I	Wct D16	A English I	D28	A English I	D28
	A Latin III	Al D17	A English III	D29	A English III	D29
	A Latin V	G D14	A English V	D16	A English V	D16
	A Greek VII		A English VII	D17	A English VII	D17
	E French V	D4	E French V	D4	E French V	D4
	S French VII	D6	S French VII	D6	S French VII	D6
	S French IX	D18	S French IX	D18	S French IX	D18
	S French XI	D13	S French XI	D13	S French XI	D13
	S German V	D7	S German V	D7	S German V	D7
	S German VII	D19	S German VII	D19	S German VII	D19 *
11	A Latin II	G D14	A English II	D28	A English II	D28
	A Latin IV	Al D17	A English IV	D29	A English IV	D29
	A Latin VI	Wct D16	A English VI	D16	A English VI	D16
	A Latin VII		A English VIII	D17	A English VIII	D17
	S French VIII	D6	S French VIII	D6	S French VIII	D6
	S French X	D18	S French X	D18	S French X	D18
	S French XII *	D13	S French XII *	D13	S French XII *	D13
	S German VI	D7	S German VI	D7	S German VI	D7
	S German VIII	D19	S German VIII	D19	S German VIII	D19
12 *	A Greek I	Pr D26	A French XV	D6	A French XV	D6
	A Greek III	L D13	A French XVII	D4	A French XVII	D4
	A Greek V	K D4	A German XV	D7	A German XV	D7
	L Latin XI	A D5	A German XVII	D5	A German XVII	D5
	L Latin XIII	B D16	S English XI	D28	S English XI	D28
	L Latin XV	C D17	S English XIII	D29	S English XIII	D29
			S English XV	D18	S English XV	D18
			S English XVII	D19	S English XVII	D19
1	A Greek II	K D4	A French XVI	D6	A French XVI	D6
	A Greek IV	L D13	A French XVIII *	D4	A French XVIII *	D4
	A Greek VI	M D26	A German XVI	D7	A German XVI	D7
	L Latin XII	C D17	A German XVIII	D5	A German XVIII	D5
	L Latin XIV	B D16	S English XII	D28	S English XII	D28
	L Latin XVI	A D5	S English XIV	D29	S English XIV	D29
			S English XVI	D	S English XVI	D18
			S English XVIII	D19	S Eng ish XVIII	D19
2						

JOHN C. GREEN SCHOOL OF SCIENCE SOPHOMORE FIRST TERM SCHEDULE, 1905–1906

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	B History I D26 B History IV S28 B History VII D13 E Graphics	B History I D26 B History IV S28 B History VII D13 E Graphics	B History I D26 B History IV S28 B History VII D13 E Graphics	Physics I S23	Physics I S23	Physics I S23
9	B Chem I, II Lab B History II D26 B History V S28 B History VIII D13 E Graphics	B Chem I, II Lab B History II D26 B History V S28 B History VIII D13 E Graphics	B Chem I, II Lab B History II D26 B History V S28 B History VIII D13 E Graphics	Physics II S23	Physics II S23	Physics II S23
10	B French I D6 B French III D4 B German II D7 B German IV D28 B History III D13 B History VI S28 Math V ι S1 E Mineralogy I	B French I D6 B French III D4 B German II D7 B German IV D28 B History III D13 B History VI S28 Math V ι S1 E Mineralogy I	B French I D6 B French III D4 B German II D7 B German IV D28 B History III D13 B History VI S28 Math V ι S1 E Mineralogy I	B Latin I D26 B Graphics S E Geodesy I S12 E Geodesy III S	B Latin I (D26) B Graphics S E Geodesy I S12 E Geodesy III S	B Latin I D26 B Graphics S E Geodesy I S12 E Geodesy III S
11	B German I D7 B German III D28 B French II D6 B French IV S31 B B. Fr. V D13, S28 B Beg German V D29 Math VI η S7 E Mineralogy I	B German I D7 B German III D28 B French II D6 B French IV S31 B B. Fr. V D13, S28 B Beg German V D29 Math VI η S7 E Mineralogy I	B German I D8 B German III D28 B French II D6 B French IV S31 B B. Fr. V D31, S28 B Beg German V D29 Math VI η S7 E Mineralogy I	B Latin II D26 B Graphics S E Geodesy II S12	B Latin II (D26) B Graphics E Geodesy II S12	B Latin II D26 B Graphics E Geodesy II S12
12	Math I β S7 Math III ι S1 Math VII η D28 E Mineralogy II	Math I β S7 Math III ι S1 Math VII η D28 E Mineralogy II	Math I β S7 Math III ι S1 Math VII η D28 E Mineralogy II	B Logic I D8 B Logic III S28 B Logic V S31 B Logic VII S3 B Logic IX N Ed10 C E Math I δ S1 C E Math III ζ S7	B Logic I D8 B Logic III S28 B Logic V S31 B Logic VII S3 B Logic IX N Ed10 C E Math I δ S1 C E Math III ζ S7	B Logic I-IX D8
1	Math II μ S7 E Mineralogy II	Math II μ S7 E Mineralogy II	Math II μ S7 E Mineralogy II	B Logic II S28 B Logic IV S31 B Logic VI S3 B Logic VIII N Ed10 C E Math II ζ S7	B Logic II S28 B Logic IV S31 B Logic VI S3 B Logic VIII N Ed10 C E Math II ζ S7	
2						

JOHN C. GREEN SCHOOL OF SCIENCE SOPHOMORE SECOND TERM SCHEDULE, 1904–1905

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8	B Eng I, II, III S10 E Graphics	B English I S10 B English II S28 B English III S31 E Graphics	B English I S10 B English II S28 B English III S31 E Graphics	Physics I S23	Physics I S23	Physics I S23
9	B Chemistry I, II C B Eng IV, V, VI S10 B French III D6 B German III D7 E Graphics	B Chemistry I, II C B English IV S10 B English V S28 B English VI S31 B French III D6 B German III D7 E Graphics	B Chemistry I, II C B English IV S10 B English V S28 B English VI S31 B French III D6 B German III D7 E Graphics	Physics II S23	Physics II S23	Physics II S23
10	B French I D6 B German II D7 B Eng VII, VIII, IX S10 E Mineralogy I	B French I D6 B German II D7 B English VII S10 B English VIII S28 B English IX S31 E Mineralogy I	B French I D6 B German II D7 B English VII S10 B English VIII S28 B English IX S31 E Mineralogy I	B Latin I D14 E Geodesy S12 B Graphics	B Latin I D14 E Geodesy S12 B Graphics	B Latin I D14 E Geodesy S12 B Graphics
11	B German I D7 B French II D6 E Math II λ S7 E Mineralogy I	B German I D7 B French II D6 E Math II λ S7 E Mineralogy I	B German I D7 B French II D6 E Math II λ S7 E Mineralogy I	B Latin II D14 E Geodesy S12 B Graphics	B Latin II D14 E Geodesy S12 B Graphics	B Latin II D14 E Geodesy S12 B Graphics
12	B Math I τ D18 B Math III ν D19 E Math I λ S7	B Math I τ D18 B Math III ν D19 E Math I λ S7	B Math I τ D18 B Math III ν D19 E Math I λ S7	B Psych I τ D8 B Psych III φ D28 E Geodesy S12	B Psych I–IV τ D8 E Geodesy S12	B Psych I–IV τD8
1	B Math II κ D19 B Math IV τ D18 E Mineralogy II	B Math II κ D19 B Math IV τ D18 E Mineralogy II	B Math II κ D19 B Math IV τ D18 E Mineralogy II	B Psych II φ D28 B Psych IV τ D8 E Geodesy S12	E Geodesy S 12	
2	E Mineralogy II	E Mineralogy II	E Mineralogy II	E Geodesy S12	E Geodesy S12	

JOHN C. GREEN SCHOOL OF SCIENCE JUNIOR FIRST TERM SCHEDULE, 1905-1906

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	B Italian, 35 D5 E Graph Stat S	B Italian, 35 D5 E Geodesy S12	B Italian, 35 D5 E Geodesy S12	B Adv Psych, 33 S28 B French, 31 D6 E Astron S25	B Adv Psych, 33 S28 B French, 31 D6 E Astron S25	B Adv Psych, 33 S28 B French, 31 D6 E Astron S25
9	B Jurisprud, 33 D21 B Biology, 31 S25 E Graph Stat S	B Jurisprud, 33 D21 B Biology, 31 S25 E Geodesy S12	B Jurisprud, 33 D21 B Biology, 31 S25 E Geodesy S12	B History, 31 D2 B German, 31 D7 B Th Chem, 31 C	B History, 31 D2 B German, 31 D7 B Th Chem, 31 C	B History, 31 D2 B German, 31 D7 B Th Chem, 31 C
10	B Art & Arch, 31 B Calc & Geom S7 E Graphics	B Art & Arch, 31 B Calc & Geom S7 E Graphics	B Art & Arch, 31 B Calc & Geom S7 E Graph Stat S	Anal Mech I S7 Anal Mech III S1 B Mineralogy 33 C9 (B Hist 31 D12)	Anal Mech I S7 Anal Mech III S1 B Mineralogy 33 C9 (B Hist 31 D12)	Anal Mech I S7 Anal Mech III S1 B Mineralogy 33 C9 (B Hist 31 D12)
11	B En Phil D2, 4 & 5 B Geology, 31 N E Graphics	B En Phil D2, 4 & 5 B Geology, 31 N E Graphics	B En Phil D2, 4 & 5 B Geology 31, N E Graph Stat S	B Engl Lit, 31 D2 B Astronomy, 31 S25 B Archit 33 M E Anal Mech II S7	B Engl Lit, 31 D2 B Astron, 31 S25 B Archit 33 M E Anal Mech II S7	B Engl Lit, 31 D2 B Astron, 31 S25 B Archit 33 M E Anal Mech II S7
12	B Hist Phil, 31 D8 B Spanish, 37 D6&7 B Physics, 31 Lab E Graph Stat S	B Hist Phil, 31 D8 B Spanish, 37 D6&7 B Physics, 31 Lab E Geology N	B Hist Phil, 31 D8 B Spanish, 37 D6&7 B Physics, 31 Lab E Geology N	B Econ. 35 D6&7 B Graphics S E Geodesy S12	B Econ. 35 D16&17 B Graphics S E Geodesy S12	B Economics, 35 D2 B Graphics S
1	B Qual Anal, 33 C E Graph Stat S	B Qual Anal, 33 C	B Qual Anal, 33 C	B Latin, 33 D14 B Histology, 33 Lab E Geodesy S12 B Graphics S (Econ. D6&7)	B Latin, 33 D14 B Histology, 33 Lab E Geodesy S12 B Graphics S (Econ. D16&17)	B Latin, 33 D14 B Histology, 33 Lab B Graphics S
2-5				E Geodesy S12	E Geodesy S12	

JOHN C. GREEN SCHOOL OF SCIENCE JUNIOR SECOND TERM SCHEDULE, 1904–1905

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8	B Italian 36 D5	B Italian 36 D5 E Geodesy	B Italian 36 D5 E Geodesy	Physics 32 S23 B Adv Logic 34 D4 B French 32 D6	Physics 32 S23 B Adv Logic 34 D4 B French 32 D6	Physics 32 S23 B Adv Logic 34 D4 B French 32 D6
9	B Cont Gov 34 D21 B Biology 32 S25	B Const Gov 34 D21 B Biology 32 S25 E Geodesy	B Const Gov 34 D21 B Biology 32 S25 E Geodesy	B History 32 S10 B German 32 D7	B History 32 S10 B German 32 D7	B History 32 S10 B German 32 D7
10	B Art & Arc 32 S25 B Geometry 32 D18 E Graphics	B Art & Arc 32 S25 B Geometry 32 D18 E Graphics	B Art & Arc 32 S25 B Geometry 32 D18 E Graphics	B Chem 32 C9 B An Mech 34 D19 E Ap Mech 6	B Chem 32 C9 B An Mech 34 D19 E Geology N	B Chem 32 C9 B An Mech 34 D19 E Geology N
11	B Eng Ph D2, 4 & 5 B Phys Geog 34 N E Graphics	B Eng Ph D2, 4 & 5 B Phys Geog 34 N E Graphics	B Eng Ph D2, 4 & 5 B Phys Geog 34 N E Graphics	B English Lit 32 D2 E Ap Mech 6	B English Lit 32 D2	B English Lit 32 D2
12	B Hist Phil 32 D8 B Spanish 38 D7	B Hist Phil 32 D8 B Spanish 38 D1 E Ap Mech 6	B Hist Phil 32 D8 B Spanish 38 D1 E Ap Mech 6	B Economics 36 D2 B Geology 32 N E Astronomy Obs	B Economics 36 D2 B Geology 32 N E Astronomy Obs	B Economics 36 D2 B Geology 32 N
1	B Quan Anal 34 C	B Quan Anal 34 C E Ap Mech 6	B Quan Anal 34 C E Ap Mech 6	B Latin 34 D14 B Botany 34 S25 E Astronomy Obs	B Latin 34 D14 B Botany 34 S25 E Astronomy Obs	B Latin 34 D14 B Botany 34 S25
2	E Geodesy	E Geodesy		E Astronomy Obs	E Astronomy Obs	

JOHN C. GREEN SCHOOL OF SCIENCE SENIOR FIRST TERM SCHEDULE, 1905-1906

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	B Spanish, 47 D7 B Paleon, 45 N B Math, 41 S9 B Chemistry, 45 C E Geodesy S12	B Spanish, 47 D7 B Paleon, 45 N B Math, 41 S9 B Chemistry, 45 C	B Spanish, 47 D7 B Paleon, 45 N B Math, 41 S9 B Chemistry, 45 C	B Geology, 41 N B Exp Psych 43 Lab B German, 41 D7 E Graphics	B Geology, 41 N B Exp Psych 43 Lab B German, 41 D7 E Graphics	B Geology, 41 N B Exp Psych,43 Lab B German, 41 D7
9	B Biology, 41 Lab B Out Phil, 41 D4 B English D2 B Rom Law, 49 D16 E Geodesy S12	B Biology, 41 Lab B Out Phil, 41 D4 B English, 41 D2 B Rom Law, 49 D16 E App Mech (s) S13	B Biology, 41 Lab B Out Phil, 41 D4 B English, 41 D2 B Rom Law, 49 D16 E App Mech (s) S13	B Physics, 43 Lab B Econ, 49 D14 B French Lit,41 D26 B Biology, 43 S25 E Graphics	B Physics, 43 Lab B Econ, 49 D14 B French Lit, 41 D26 B Biology, 43 S25 E Graphics	B Physics, 43 Lab B Econ, 49 D14 B French Lit,41 D26 B Biology, 43 S25 E Constr. (s) S13
10	B Chemistry, 43 C B Old French 43 D5 E Ap Mech (M) S13 B Bibl Lit S31	B Chemistry, 43 C B Old French, 43 D5 E App Mech (M) S13 B Bibl Lit S31	B Chemistry, 43 C B Old French, 43 D5 E App Mech (M) S13 B Bibl Lit S31	B Art & Arch, 43 B English, 43 D21 B Sanskrit E App Mech (M) S13	B Art & Arch, 43 B English, 43 D21 B Sanskrit E App Mech, (M) S13	B Art & Arch, 43 B English, 43 D21 B Sanskrit E Constr. (s) S13
11	B Ethics, 45 D12 B Latin, 45 D14 B Politics, 47 S10 E Ap Mech (M) S13	B Ethics, 45 D12 B Latin, 45 D14 B Politics, 47 S10 E App Mech (M) S13	B Ethics, 45 D12 B Latin, 45 D14 B Politics, 47 S10 E App Mech (M) S13	B Math, 43 B Amer Hist, 43 D8 E App Mech (M) S13	B Math, 43 B Amer Hist, 43 D· E App Mech (M) S13	B Math, 43 B Amer Hist, 43 D8 E Constr. (s) S13
12	B Mineralogy, 47 C B Physics, 41 Lab B Art & Arch, 41 B German, 43 D29 B History, 41 D2 E Geodesy S12	B Mineralogy, 47 C B Physics, 41 Lab B Art & Arch, 41 B German, 43 D29 B History, 41 D2 E Geodesy S12	B Mineralogy, 47 C B Physics, 41 Lab B Art & Arch, 41 B German, 43 D29 B History, 41 D2 Th Pr Mot, 41 S13	B Politics, 45 S10 B Latin, 47 D14 Th Pr Mot, 41 S13	B Politics, 45 S10 B Latin, 47 D14 Th Pr Mot, 41 S13	B Politics, 45 S10 B Latin, 47 D14 E Constr. (s) S13
1	B Italian, 45 D7 E Geodesy S12	B Italian, 45 D7 E Geodesy S12	B Italian, 45 D7 Th Pr Mot, 41 S13	B Geology, 43 N B Prac Ast, 41 Obs Th Pr Mot, 41 S13	B Geology, 43 N B Prac Ast, 41 Obs Th Pr Mot, 41 S13	B Geology, 43 N B Prac Ast, 41 Obs
2-6	B Chem, 45 C E Geodesy S12	B Chem, 45 C E Geodesy S12	B Chem, 45 C	B Chem, 41 C B Prac Ast, 41 Obs	B Chem, 41 C B Prac Ast, 41 Obs	B Chem, 41 C B Prac Ast, 41 Obs

JOHN C. GREEN SCHOOL OF SCIENCE SENIOR SECOND TERM SCHEDULE, 1904-1905

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	B Spanish 48 D7 B Math 42 S6 B German 44 D6	B Spanish 48 D7 B Math 42 S6 B German 44 D6 E Constr 4 S13	B Spanish 48 D7 B Math 42 S6 B German 44 D6 E Constr 4 S13	B Geology 42 N B German 42 D7 E Constr 2 S13	B Geology 42 N B German 42 D7 E Constr 2 S13	B Geology 42 N B German 42 D7 E Constr 10 S13
9	B Biology 42 L B English 42 D2 B Rom Law 50 D16	B Biology 42 L B English 42 D2 B Rom Law 50 D16 E Constr 4 D13	B Biology 42 L B English 42 D2 B Rom Law 50 D16 E Constr 4 D13	B Physics 44 L B Economics 50 D8 B French Lit 42 D2 B Biology 44 S25 E Constr 2 S13	B Physics 44 L B Economics 50 D8 B French Lat 42 D2 B Biology 44 S25 E Constr 2 S13	B Physics 44 L B Economics 50 D8 B French Lit 42 D2 B Biology 44 S25 E Constr 10 S13
10	B Paleont 46 N B Old French 44 D5 B Chem 44A C9 Pr Mot S13 B History 42 D2	B Paleont 46 N B Old French 44 D5 B Chem 44A C9 Pr Mot S13 B History 42 D2	B Paleont 46 N B Old French 44 D5 B Chem 44A C9 Pr Mot S13 B History 42 D2	(B Art & Arc 44) B English 44 D2 B Philos 44 D4 B Sanskrit E App Mech 12 S13	B Art & Arc 44 B English 44 D2 B Philos 44 D4 B Sanskrit E App Mech 12 S13	(B Art & Arc 44) B English 44 D2 B Philos 44 D4 B Sanskrit E Constr 10 S13
11	B Ethics 46 D8 B Latin 46 D14 B Politics 48 S10 Pr Mot S13	B Ethics 46 D8 B Latin 46 D14 B Politics 48 S10 Pr Mot D13	B Ethics 46 D8 B Latin 46 D14 B Politics 48 S10 Pr Mot S13	B Math 44 D19 B Am Hist 44 D21 B Phys Chem 44 S6 E App Mech 12 S13	B Math 44 D19 B Am Hist 44 D21 B Phys Chem 44 S6 E App Mech 12 S13	B Math 44 D19 B Am Hist 44 D21 B Phys Chem 44 S6 E Constr 10 S13
12	B Art & Arc 42 S25 B Phys Geog 44 N B Hist Phil 42 D8 E Graphics	B Art & Arc 42 S25 B Phys Geog 44 N B Hist Phil 42 D8 E Constr 6 S13	B Art & Arc 42 S25 B Phys Geog 44 N B Hist Phil 42 D8 E Constr 6 S13	B Politics 46 S10 B Latin 48 D14 B Hist Nat Phil D2 E Constr 8 S13	B Politics 46 S10 B Latin 48 D14 B Hist Nat Phil D2 E Constr 8 S13	B Politics 46 S10 B Latin 48 D14 B Hist Nat Phil D2
1	B Italian 46 D7 B Physics 42 S23 B Chemistry 48A C E Graphics	B Italian 46 D7 B Physics 42 S23 B Chemistry 48A C E Constr 6 S13	B Italian 46 D7 B Physics 42 S23 B Chemistry 48A C E Constr 6 S13	B Pract Astr 42 Obs E Constr 8 S13	B Pract Astr 42 Obs E Constr 8 S13	B Pract Astr 42 Obs
2	B Chemistry 42A C	B Chemistry 42A C	B Chemistry 42A C	B Chem 42A C B Chem 46 C B Pract Astr 42 Obs	B Chem 42A C B Chem 46 C B Pract Astr 42 Obs	B Chem 42A C B Chem 46 C BPract Astr 42 Obs

THE GRADUATE SCHOOL

The affairs of the Graduate School are administered by a Dean, with an Advisory Committee of the University Faculty. The committee consists of the President and Dean, *ex-officio*, and Professors Brackett, Scott, Magie, Fine, Hibben, Harper, and Thompson. All inquiries should be addressed to Professor West, Dean of the Graduate School.

Only graduates of Princeton and of other universities maintaining a similar standard for the Bachelor's degree may be enrolled on their diplomas as graduate students. Graduates of other universities and colleges may be admitted as graduate students only upon examination. They may, however, on presentation of their diplomas and other satisfactory credentials, be enrolled without examination as undergraduates in the class to enrolment in which their proficiency entitles them.

Each graduate student attending instruction regularly, and passing the examinations, is entitled to a certificate stating what he has done, signed by the President in behalf of the University.

Students by pursuing these courses may also qualify themselves for the degree of Master of Arts. The degree of Doctor of Philosophy is conferred according to the regulations prescribed under the heading "Degrees."

All graduate students, except Fellows, shall pay the sum of five dollars for each course each term. The total maximum charge is not to exceed twenty dollars a term. Undergraduate courses of lectures or instruction are also open to graduate students, but undergraduates are not admitted to the graduated courses. Extra charges will be

made for certain laboratory courses, the amount to depend on the nature of the course pursued.

All applications for enrolment should be made to the Dean of the Graduate School.

THE GRADUATE HALL

The house and grounds of "Merwick", an estate of eleven acres on Bayard Lane, within five minutes walk of the University, has been secured as a residential hall of the Graduate School and placed in the immediate charge of Professor Howard Crosby Butler, of the University Faculty. The number of graduate students taken in residence is limited to twelve, and a few more are admitted to the table. Through the liberality of several friends of the University the equipment and maintenance of "Merwick" have been so far provided for that the expenses of graduate students who are admitted to its privileges will be moderate. All applications for information or admission should be made to the Dean of the Graduate School.

GRADUATE COURSES OF INSTRUCTION

The courses which are open to *graduate students only* are detailed in the list of courses offered in each Department and are as follows:

PHILOSOPHY

101, I. Negative Theories of Knowledge. Lectures and readings. First term, 3 hours a week. (Given 1906–1907.) Professor Ormond.

101, II. Kant, Lotze, and Contemporaneous Philosophy. Lectures, reading, and conferences. First term, 3 hours a week. (Given 1905–1906.) Professor Ormond.

102, I. Encyclopedia of Philosophy. Lectures and read-

ings. Second term, 3 hours a week. (Given 1906–1907.) Professor Ormond.

102, II. Philosophical Aspects of Evolution and Heredity. Second term, 3 hours a week. (Given 1905–1906.) Professor Ormond.

103, 104. Experimental Psychology. Laboratory course, consisting largely in research work, with weekly conference for original reports; open to all qualified graduate students. Both terms, 3 hours a week. Professor Warren.

105, 106. Seminary in General Philosophy. Topic for the year: Hobbes and Spinoza. Conducted by reading, theses, and discussions. Both terms. Professor Ormond.

107, 108. Psychological Seminary. Topic to be determined in consultation with class; open to graduate students who satisfy the professor of their competence; limited to twelve men studying for advanced degrees. Not given for less than five men. Both terms. Professor Warren or Professor Thilly.

109. Theory of Mental Measurements. First term, 3 hours a week. Professor Warren.

111, 112. Readings in German Philosophy. Both terms, 3 hours a week. *Hegel's* Logik. Professor Hibben.

113, I. History of English Ethics. First term, 3 hours a week. (Given 1905–1906.) Professor G. S. Patton.

114, I. Problems in Contemporary Ethics. Second term, 3 hours a week. (Given 1905–1906.) Professor G. S. Patton.

113, II. Hedonism and the Ethics of Naturalism. First term, 3 hours a week. (Given 1906–1907.) Professor G. S. Patton.

114, II. Self-realization and the Ethics of Idealism. Second term, 3 hours a week. (Given 1906–1907.) Professor G. S. Patton.

115. The Philosophy of the Mind. The problem of consciousness in its metaphysical and epistemological bearings. First term, 3 hours a week. (Given 1905–1906.) Professor Thilly.

HISTORY, POLITICS, AND ECONOMICS

108, I. (Classics 108, I) The Private Law Orations of Cicero. Second term, 3 hours a week, alternating with 108, II. Professor Westcott.

108, II. (Classics 108, II) Scources of Early Roman Law. Second term, 3 hours a week, alternating with 108, I. Professor Westcott.

109. Genesis of Industrial Order. An ethnological study of industry, including the earliest forms of the division of labor, the domestication of animals and plants, the rise of slavery, the use of money, etc. The class will meet in the Seminary room and the writing and criticism of theses will constitute the basis of the course. First term, 3 hours a week. Professor Wyckoff.

110. Advanced Economic Theory. An exposition of economic theory, historical and dogmatic. Seminary course for competent graduates, designed to supplement and continue course 109. Hours to be arranged with the instructor. Second term, 3 hours a week. Professor Daniels.

ART AND ARCHÆOLOGY

101. Greek Architecture. This course will consist of a critical study of *Vitruvius'* De Architectura. First term, 3 hours a week. Professor Marquand.

102. Gothic Architecture. A study of the development and spread of Gothic architecture in the various countries of Europe. Second term, 3 hours a week. Professor Marquand.

103, 104. Christian Architecture. A practical study of

ecclesiastical architecture, from the fourth century to the twelfth, including the subjects of the construction, design, and details of the early Christian, Byzantine, and Romanesque periods, with exercises in drawing. Requires elementary knowledge of the history of Christian art and Mediæval history, and ability to read French. Both terms, 3 hours a week. Professor Butler.

106. Renaissance Architecture. A practical study of the architecture of the Renaissance in Europe, with exercises in design. Requires knowledge of the elements of architecture; of shades, shadows, and perspective; and ability to read French. Second term, 3 hours a week. Professor Butler.

SEMITICS

101, 102. Advanced Arabic. Interpretation of the more difficult texts; reading of manuscripts and inscriptions. *Noeldeke-Müller:* Delectus Veterum Carminum Arabicorum; *Imâd ad-Dîn:* Conquest of Syria and Palestine by Saladin (*Ed. Landberg*). Both terms, 3 hours a week. (Not given 1905–1906.) Dr. Littmann.

103, 104. Ethiopic. Outline of the history of Ethiopic literature, with interpretation of selections from different works, and reading of manuscripts. Both terms, 3 hours a week. (Not given 1905–1906.) Dr. Littmann.

105. Semitic Epigraphy. Interpretation of Phœnician, Palmyræan, Nabatæan, or South Arabian inscriptions. *Lidzbarski:* Handbuch der Nordsemitischen Epigraphik; *Hommel:* Südarabische Chrestomathie. First term, 3 hours a week. (Not given 1905–1906.) Dr. Littmann.

106. Advanced Syriac. Interpretation of a text from

Land: Anecdota Syriaca. Second term, 3 hours a week. (Not given 1905-1906.) Dr. Littmann.

Courses on other Semitic languages and their literature, and in addition on Coptic and Turkish, may be given if desired.

INDO-IRANIAN

107, 108. Advanced Sanskrit. Reading of classical and Vedic Sanskrit in the first and second terms. *Windisch: Zwölf* Hymnen des Rig Veda; or *Peterson:* Handbook to the Study of the Rig Veda, Part II. Both terms, 3 hours a week. Professor Winans or Professor Robbins.

109, 110. Avesta. Grammar and reading of selected texts. *Jackson:* Avesta Grammar, Avesta Reader, first series; *Geldner:* Avesta; *Mills:* Gâthâs. Both terms, 3 hours a week. Professor Robbins.

CLASSICS

101. Aristophanes. Selected plays. First term, 3 hours a week. Professor Robbins.

102. Historical Latin and Greek Grammar. Phonology and morphology. Lectures and readings. *Brugmann, Hirt, Myer, Stolz,* and *Lindsay.* Second term, 3 hours a week. Professor Robbins.

103. Greek Inscriptions. Lectures will be given on the history of classical epigraphy, the alphabet, and the methods of interpretation. Practical exercises will be held in reading from casts and squeezes. Inscriptions of special historical value, chiefly those of the fifth century, will be interpreted and discussed. First term, 3 hours a week. Professor Prentice.

104. Thucydides. Critical study of the history of Thucydides. Second term, 3 hours a week. Professor Winans.

105, 106. Mediæval Latin Literature. A course involving the extensive reading of representative writers and of the history of Mediæval Latin literature. Both terms, 3 hours a week. Dean West.

108, I. (Hist., Politics, and Econom., 108, I.) Law Orations of Cicero, with a study of the legal institutions of his time. Second term, 3 hours a week, alternating with 108, II. Professor Westcott.

108, II. (Hist., Politics, and Econom., 108, II.) Sources of Early Roman Law. *Bruns:* Fontes Juris Romani Antiqui; *Lindsay:* Latin Inscriptions. Second term, 3 hours a week, alternating with 108, I. Professor Westcott.

110. Tacitus. Reading of the whole of the author's works so far as not previously read. Study of date, sources, method, purpose, etc., of each work, and of the development of the author's style in his successive periods. Results of study to be embodied in weekly papers to be handed in and discussed. Second term, 3 hours a week. Professor Westcott.

112. Introduction to the Study of Mythology. Lectures and theses. Second term, 3 hours a week. (Not given 1905-1906.) Professor Carter.

114. Palæography and Text-Criticism. Reading of Latin manuscripts, search for material, collation, formation of genealogies, and construction of text. Lectures and direction leading to theses. Second term, 3 hours a week. Dr. Richardson.

ENGLISH

102. Beaumont and Fletcher: their Contemporaries and Collaborators. Second term, 3 hours a week. Professor Parrott

103. Modern Romantic Tragedy. A comparative study. First term, 3 hours a week. Professor Harper.

105. Old and Middle English Dialects. A study of the phonology and accidence of the chief dialects of old and middle English, from the eighth to the thirteenth century, illustrated by copious readings from the literature of the period. First term, 3 hours a week. Professor Craig.

106. Langland. Second term, 3 hours a week. Professor Long.

107. Chaucer. First term, 3 hours a week. Professor Root.

108. Pre-Chaucerian Middle English Readings. Second term, 3 hours a week. Professor Griffin.

109. Middle English Romances. First term, 3 hours a week. Professor Gerould.

111. Origins of the Story. First term, 3 hours a week. Professor Griffin.

MODERN LANGUAGES

Germanic Section

101. Middle High German. Grammar, lectures, and reading. The course is designed both to furnish a foundation for the historical study of modern German and to serve as an introduction to the study of Germanic philology. Proficiency in modern German is required. *Paul:* Mittelhochdeutsche Grammatik; *Michels:* Mittelhochdeutsches Elementarbuch; *Weinhold:* Mittelhochdeutsches Lesebuch. First term, 3 hours a week. Professor Hoskins.

102. Old High German. Grammar, reading, and lectures on the historical development of the German language. Knowledge of modern German and middle high German required, and some knowledge of Gothic useful. *Braune:* Althochdeutsches Lesebuch; *Braune:* Althochdeutsches Grammatik. Second term, 3 hours a week. Professor Hoskins.

103. Historical German Grammar. Introduction, phonology, morphology. Requires a knowledge of Gothic, old and middle high German. Lectures. References to *Paul:* Grundriss der Germanischen Philologie; *Streitberg:* Urgermanische Grammatik. First term, 3 hours a week. Professor Hoskins.

104. Old Icelandic. Grammar, lectures, and reading. For advanced students. *Noreen:* Altisländische und Altnorwegische Grammatik; *Kahle:* Altisländisches Elementarbuch; *Ranisch*: Die Volsungasaga. Second term, 3 hours a week. Professor Hoskins.

106. Gothic. Grammar and reading. *Wright:* Gothic Primer; *Bernhardt:* Vulfila. Second term, 3 hours a week. Professor Priest.

Romanic Section

101, 102. Old French Philology. Lectures on old French etymology, morphology, and syntax. Both terms, 3 hours a week. Professor Lewis.

MATHEMATICS

101. Theory of Substitutions. Elementary theory of substitutions, of groups of substitutions and rotations. Application of the group theory to the solution of algebraic equations. *Netto; Bolza's* Paper in the American Journal of Mathematics. First term, 3 hours a week. Prerequisite course: Advanced Algebra. Professor Gillespie.

102. The Invariant Theory of Binary Quantics developed by the Symbolic Notation of Clebsch. Reference books: *Clebsch* and *Gordan.* Second term, 3 hours a week. Prerequisite course: Advanced Algebra. Professor Gillespie.

103. Theory of Functions of a Complex Variable. Advanced course. First term, 3 hours a week. Dean Fine.

104. Theory of Ordinary Differential Equations. Second term, 3 hours a week. Dean Fine.

106. Elliptic Functions. Second term, 3 hours a week. Professor Thompson.

107. Infinitesimal Geometry. First term, 3 hours a week. Professor Thompson.

108. Infinitesimal Geometry; either (*a*) Finite and Infinitesimal Deformations of Surfaces, or (*b*) Congruences and Complexes. Second term, 3 hours a week. Professor Eisenhart.

109, 110. Special Topics in Metrical Geometry. Historical readings of some of the memoirs of *Monge*, *Dupin*, *Gauss*, *Weingarten*, *Darboux*, and *Bianchi*. Both terms, 3 hours a week. Professor Thompson.

115. (Physics 119.) Introduction to Molecular Dynamics. First term. Professor Jeans.

116. (Physics 120.) The Dynamical Theory of Gases. *Jeans:* Theory of Gases. Second term. Professor Jeans.

ASTRONOMY

101, 102. Theoretical Astronomy and the Calculation of Orbits. *Watson:* Theoretical Astronomy; *Oppolzer:* Bahnbestimmung; *Klinkerfues:* Theoretische Astronomie. Both terms, 3 hours a week. Professor Lovett.

103, 104. Practical Astronomy, Including the Theory of Instruments. Extended course. Thorough study of the determination of time, latitude, and azimuth; work with the equatorial on double stars, variable stars, and the sun. *Chauvenet:* Practical Astronomy. Both terms, 3 hours a week.

105. Theory and Method of Reduction of Photographic Star Plates. Determination of star-places from photographic plates, stellar parallax, and proper motion. First term, 3 hours a week. Dr. Russell.

106. Spectroscopy. The theory and use of the spectroscope as an implement of astronomical investigation, with practical work in the observatory. Second term, 3 hours a week. Dr. Russell.

107, 108. Celestial Mechanics. An introduction to the general problems of the motions of the heavenly bodies. Lectures and collateral reading in the treatise of *Tisserand*. Both terms, 3 hours a week. Professor Lovett.

109, 110. Modern Theories of Celestial Mechanics. An account of the recent developments inspired by the work of *Poincaré*. Lectures, supplemented by the treatises of *Poincaré* and *Charlier*. Both terms, 3 hours a week. Professor Lovett.

PHYSICS

101, 102. Theory of Electricity. First term, *Mascart et Joubert:* L' Electricité et le Magnétisme; second term, *Drude:* Die Physik des Aethers. Both terms, 3 hours a week. Professor Brackett.

103, 104. Absolute Measurements in Electricity and Magnetism. *Gray*. Both terms, 4–6 hours a week. Professor McClenahan.

105, 106. Laboratory Practice in Physics. Both terms 3 hours a week. Professor McClenahan.

107. Theory of Heat. First term, 3 hours a week. Professor W. F. Magie.

108. Molecular Theory of Matter. Capillarity and the kinetic theory of gases. Second term, 3 hours a week. Professor W. F. Magie.

109. Conduction of Electricity in Gases and Radioactivity. First term, 3 hours a week. (Given 1906–1907.) Dr. Adams.

110. Electrodynamics, based on the Corpuscular Theory of Electricity. Second term, 3 hours a week. (Given 1906–1907.) Dr. Adams.

111. Elasticity. First term, 3 hours a week. Professor Loomis.

112. Theory of Potential. Second term, 3 hours a week. (Given 1906–1907.) Professor Loomis.

114. Electromagnetic Theory of Light. Second term, 3 hours a week. (Given 1905–1906.) Dr. Robinson.

115, 116. Theory and Practice of Exact Measurements. Both terms, 3 hours a week. Professor Loomis.

117, 118. Research Work in Physics. Both terms, number of hours indefinite. Professor W. F. Magie and Professor Loomis.

119. (Mathematics 115.) Introduction to Molecular Dynamics. First term. Professor Jeans.

120. (Mathematics 116.) The Dynamical Theory of Gases. *Jeans:* Theory of Gases. Second term. Professor Jeans.

The physical laboratory is open throughout the week to graduate students.

CHEMISTRY

101, 102. Advanced Quantitative Analysis and Research in Inorganic Chemistry. Both terms, 3 hours a week. Professor McCay.

104. The Rare Elements, especially in their relations to Minerals and Rocks. Second term, 3 hours a week. Prerequisite course: Quantitative Analysis. Professor Cornwall.

105, 106. Organic Chemistry. Lectures upon special topics, accompanied by the reading and discussion of the literature. Both terms, 3 hours a week. Prerequisite course: Elements of Organic Chemistry. Professor Neher.

107, 108. Advanced Laboratory Work in Organic Chemistry. Preparations, special methods of analysis and research. Both terms, 3 hours a week. Professor Neher.

109. Electrochemistry. *Lehfeldt:* Electrochemistry. First term, 3 hours a week. Professor Hulett.

110. Chemical Dynamics. *Mellor:* Chemical Dynamics; *Nernst:* Theoretical Chemistry. Second term, 3 hours a week. Professor Hulett.

111, 112. Research work in Physical Chemistry, especially in the field of Electrochemistry. Both terms, 3 hours a week. Professor Hulett.

GEOLOGY

101. Economic Geology. First term, 3 hours a week. Professor Farr.

102, 103. Stratigraphical Geology. Research course. Field and laboratory work, involving study and description of the stratigraphy, paleontology, and structure of the sedimentary rocks of some particular district, terminating in the preparation of a report according to official standards. Given during the summer vacation and both terms, number of hours indefinite. Mr. van Ingen.

BIOLOGY

101, 102. Cytology, Histogenesis, and Comparative Histology. Lectures and the practical study of the cell and its organs. Comparative studies of several tissues. Histogenesis, repair and regeneration of the tissues. Methods of research and thesis work. Both terms, 3 hours a week. A fee of $25 is charged for apparatus and reagents. Professor Dahlgen.

103. Systematic Botany of the Vascular Plants. Structure as related to description and classification. Exercises in plant-description, rule of nomenclature, and the characters of the larger families of Angiosperms. *Campbell:* University Text-book of Botany; *Bentham and Hookes:* Genera of Plants; *Engler and Prantl:*

Pflanzen-Familien. First term, 3 hours a week. Prerequisite to Biology 104. Professor Macloskie.

104. Systematic Botany of the Vascular plants; second course. Gymnosperms and the vascular cryptogams; palæo-botany; phytogeography; field-work on the local flora. *Campbell:* University Text-book of Botany; *Britton:* Manual of Flora; *Coulter and Chamberlain:* Gymnosperms and Angiosperms. Second term, 3 hours a week. Prerequisite course: Biology 103. Professor Macloskie.

105, 106. The Morphology and Phylogeny of the Organ Systems of Vertebrates. Research course, both terms, 3 hours a week. Professor McClure.

107. Comparative Morphology of the Invertebrates. First term, 3 hours a week. Professor Rankin.

109. Paleontology of Mammals. First term, 3 hours a week. Professor Scott.

110. Paleontology. The morphology and phylogeny of living and extinct vertebrates other than mammals. Second term, 3 hours a week. Professor Farr.

111, 112. An advanced course in biology has been established in connection with the geological, zoological, botanical, and chemical departments, the objects in view being: (1) to foster a spirit of original research; (2) to qualify advanced students to become teachers. This course is open to graduates, also to students presenting diplomas from recognized medical schools.

It is not restricted to students who are candidates for a higher degree, if the applicants possess sufficient elementary knowledge to profit by the instruction.

This graduate course is of a comprehensive and elastic character, and according to the requirements and wishes of different students, includes much laboratory work under the direction of the instructor. At the close of the first term, the student

may select a department of special study for his thesis, which must present the results of original work.

DIRECTORS OF THE SEMINARIES

1905–1906

Philosophical Seminary
Professor Hibben.

Economic Seminary
Professor Wyckoff.

Classical Seminary
Dean West.

English Seminary
Professor Harper.

Romance Seminary
Professor Lewis.

Mathematical Seminary
Professor Thompson.

DEGREES

The following degrees are given for graduate study: Master of Arts and Doctor of Philosophy.

Master of Arts (A. M.)

The degree of Master of Arts may be conferred only upon those who hold a Bachelor's degree in the liberal arts and sciences from this or another approved college maintaining similar standards of liberal education, who shall also have devoted one year exclusively to graduate study in the University under the care of the Faculty, passing examinations upon the studies pursued; or shall have taken graduate courses involving at least three hours a week each term for four terms and passed satisfactory examinations upon these courses, and on such extra reading as may be assigned. The degree may also be conferred upon a Bachelor of this University who shall have submitted to the Faculty a satisfactory dissertation, ordinarily of not less than five thousand words, on some literary, philosophical, or scientific subject previously approved by the Faculty, in April, not earlier than the third year after graduation. The fee for the degree is ten dollars, to be paid to the Dean of the Graduate School either before the candidate enters his last examinations, or else when his dissertation is handed in.

Every resident candidate shall announce to the Faculty, at least eight months before the degree can be conferred, the subjects which he intends to offer for examination. These subjects will be such as to form a consistent and well coördinated body of studies, and shall be subject to the approval of the Faculty.

Doctor of Philosophy (Ph. D.)

Subject to the regulations hereinafter stated, the degree of Doctor of Philosophy may be conferred upon any Bache-

lor of Princeton University, or of another approved institution whose academic course is equivalent to that pursued in Princeton, provided he has spent at least two years in exclusive study for the degree. One of the two years must be spent in Princeton, and the other either at Princeton or some other approved university.

REGULATIONS

I. *The Preliminary Examination.*—Every applicant before enrolment as a candidate for the Doctor's degree must pass an examination in Princeton on the first Wednesday following the opening of the acadmic year in September.

All applicants are examined on their ability to read ordinary French and German with a fluency sufficient to ensure their use as instruments of advanced study. They are also examined in the group of subjects connected with the general department of their proposed studies as detailed below:

A. In the Department of Philosophy: Ability to read Latin with a fluency sufficient to ensure its use as an instrument of advanced study; general psychology and logic; history of philosophy, ancient and modern; outlines of general history.

B. In the Department of Language and Literature: Outlines of general history; general knowledge of the English language and literature; ability to read Greek and Latin with a fluency sufficient to ensure their use as instruments of advanced study.

C. In one of the following six groups in the Department of Mathematics and Science:

1. In Mathematics: Elementary mathematics, including trigonometry, analytical geometry, the elements of the theory of equations, and the differential and integral calculus.

2. In Astronomy: Elementary mathematics, including trigonometry and analytical geometry; general astronomy; general physics.

3. In Physics: Elementary mathematics, including trigonometry and analytical geometry; general physics.

4. In Chemistry: General chemistry; general physics.

5. In Geology and Physical Georgaphy: Elements of geology, zoology, and botany; general chemistry.

6. In Biology: Elements of zoology and botany; general chemistry.

II. *Chief Subject of Study.*—Every candidate, after passing his preliminary examination and before entering on his studies for the Doctor's degree, shall announce which one of the subjects in the appended list he selects as his chief subject, and shall thereon present to the Committee on the Graduate School for their approval a statement of the said chief subject to which he intends devoting himself while a candidate, with such fulness of explanation as the committee may require.

A. Department of Philosphy: Logic, psychology, ethics, metaphysics, history of philosophy, philosophy of religion, history, political economy, science of politics, jurisprudence, archæology and art.

B. Department of Language and Literature: Sanskrit, Greek, Latin, French, German, Italian, English (including old English).

C. Department of Mathematics and Science: Mathematics, astronomy, physics, chemistry, geology and physical geography, biology.

III. *The Subsidiary Subjects.*—In addition to the chief subject the candidate shall select two suitable subsidiary subjects and announce them to his examiners at some time in the first year of his course. One of these must be logic, psychology, ethics, or the history of philosophy, unless the candidate has chosen for his chief subject any one of those just named or else passes a satisfactory special examination on some one of them before entering upon his course as a candidate. The subsidiary subjects should be cognate to

the chief subject, but not included under it, and with this restriction any study enumerated in the lists of chief subjects may be taken, as well as the following which are not thus enumerated: physiological psychology, pedagogics.

IV. *The Thesis.*—The candidate shall present a thesis on some special topic in the department which constitutes his chief subject at least four months before the degree can be granted. The thesis is not ordinarily to exceed twenty thousand words in length, and shall not be accepted unless it contains evidence of thorough scholarship and ability to pursue original research, and, if accepted, it must be published by the candidate before the degree can be conferred. If the thesis is not accepted the candidate will not be admitted to the final examination.

V. *The Final Examination.*—After the thesis has been accepted the candidate may proceed to his final examination at a time appointed by the Committee on the Graduate School. This examination in the chief and subsidiary subjects is to be conducted orally in the presence of the Faculty and cannot be divided. In the chief subject, however, there may be a written examination in addition to the oral, if the examiner so requires. The candidate will be examined on his general knowledge of the chief subject, and will be expected to show in addition a minute and complete acquaintance with some one principal part of it.

VI. *The Conferring of the Degree.*—Candidates who pass the final examination are ordinarily recommended to the Trustees for the Doctor's degree, and if the Trustees adopt the recommendation, the degree is publicly conferred by the President at the annual Commencement in June. The degree of Doctor of Philosophy carries with it that of Master of Arts.

VII. *Fees.*—Those who apply for the degree shall pay the Dean of the Graduate School a fee of sixty dollars, in two instalments of thirty dollars, the first to be paid

when the candidate is enrolled and the second when he sends in his thesis.

ACADEMIC COSTUME

The regular academic costume, characteristic of the preceding degrees, and appropriate for official academic occasions and official appearances in public, consists of three parts; the gown, the hood, and the cap. With respect to each of these parts certain things are prescribed, in conformity with similar rules prescribed by other universities after a general conference. These regulations, given below, arrange a scheme which makes the academic costume a plain badge of the grade of the degree, of the faculty to which the degree pertains, and of the institution granting the degree.

GOWNS.—The *pattern* is that fixed by custom, with pointed sleeves for the Bachelor's degree, with long closed sleeves for the Master's degree, and with round open sleeves for the Doctor's degree. The *material* shall be worsted stuff for the Bachelor's degree, silk for the Master's and Doctor's degrees. The *color* shall be black. *Trimmings:* For the Bachelor's and Master's degree the gown shall be untrimmed; for the Doctor's degree the gown shall be faced all the way down the front with black velvet, with bars of the same across the sleeves; or the facings and crossbars may be of velvet of the same color as the edging of the hood, given below, being distinctive of the faculty to which the degree pertains. The facing is about three inches wide, the crossbars are three in number, on the outside front of each sleeve, and are about an inch wide and three inches apart.

HOOD—The *pattern* is that fixed by custom. The *material*, the same as that of the gown (worsted for Bachelors, silk for Masters and Doctors). The *color* of the outside, black. The *lining* (which is distinctive of the institution

granting the degree), orange and black—the official colors of Princeton. It is the custom to have a black chevron upon an orange background. The *length* and *form* as follows: For the Bachelor's degree the length shall be three-fourths that for the Master's degree; for the Master's degree the length is that fixed by custom, not exceeding four feet; that for the Doctor's degree is of the same length, but shall have panels at the sides. It is the practice to have the panels edged with the color of the lining. The *trimmings*, binding, or edging (on the outside of the hood where it opens at the top), not more than six inches in width (two for Bachelors, three for Masters, five for Doctors), shall be of silk, satin, or velvet (velvet by custom); the color to be distinctive of the faculty to which the degree pertains, thus:

White—Faculty of Arts and Letters (A.B., A.M., Litt.D. or L.H.D.).

Scarlet—Faculty of Theology (B.D., D.D., S.T.D.).

Purple—Faculty of Law (LL.B., LL.D., J.U.D., D.C.L.).

Green—Faculty of Medicine (M.D.).

Dark Blue—Faculty of Philosophy (Ph.B., Ph.D.).

Gold Yellow—Faculty of Science (B.S., C.E., E.E., M.S., D.Sc.).

Brown—Faculty of Fine Arts.

Pink—Faculty of Music (Mus.B., Mus.D.).

CAP.—The cap is of the material and form fixed by custom, commonly called a trencher cap or mortar-board. The color shall be black. The Doctor's cap may be of velvet.

Each cap shall be ornamented with a long tassel attached to the middle of the top. The tassel of the Doctor's cap may be, in whole or in part, of gold thread.

FELLOWSHIPS

I. UNIVERSITY FELLOWSHIPS

These fellowships were founded by subscription and endowment and were intended by the founders to encourage study and promote original research in the several departments to which they are assigned. They are distinguished from the college fellowships by being open to the graduates of any American college, while the appointments are made, not by competitive examination, but by a comparison of the records presented by the applicants as to their previous collegiate standing, capacity and character.

The fellowships are subject to the following regulations:

1. The fellowships are to be held for one year, but in cases of special merit they may be continued for a longer period by recommendation of the department and sanction of the Faculty.

2. The candidates shall be graduates of not morethan five years' standing of an accredited American college. An application should be accompanied with evidence of the qualifications of the applicant to pursue an independent course of study and investigation in the department concerned.

3. Appointment shall be made by the Faculty upon recommendation of the Professors in the department interested, and shall be announced at Commencement.

4. All applications must be in the hands of the Dean of the Graduate School of the University on or before April 15, the appointees to hold their positions for a year from the following September.

It is deemed essential to the development of the Graduate School that the number of these fellowships should be largely increased. The following have already been founded:

J. S. K. Mathematical Fellowship Fund

This fund was founded in 1873 by a resident of New York City, who gave $11,000 for the purpose. Through accumulations of interest it now amounts to $16,500. In accordance with the deed of gift, "the income from this fund is to be devoted exclusively to fellowship purposes in the department of mathematics."

One fellow in mathematics will be appointed each year. Frequently a second fellow may be appointed. Appointments will be made on the basis of the records presented by the applicants as to their previous collegiate standing, capacity, and character. In addition, in the case of resident students, a competitive examination may be held in June on geometry, differential equations, and the theory of functions.

South East Club University Fellowship in Social Science

This fellowship, which pays to the holder $500 per annum, was founded by alumni of the classes of '76, '77, '78, and '79—former residents of the South Entry of East College.

Class of 1877 University Fellowship in Biology

This fellowship pays to the holder $400 per annum.

Charles Scribner University Fellowship in English Literature

This fellowship, which yields the holder $500 per annum, was founded in memory of Charles Scribner, of the class of 1840, by his son, Mr. Charles Scribner, of the class of 1875.

University Fellowship in Archæology

This fellowship pays to the holder $400 per annum.

Thaw Fellowship in Astronomy

This fellowship, which pays to the holder the income of $10,000, was founded by Mrs. Thaw, of Pittsburg.

John Harding Page Classical Fellowship

This fellowship was established in 1900 by Mrs. James Laughlin, Jr., as a memorial to her father, Mr. John Harding Page. It is conferred by appointment of the Faculty and pays the holder the sum of $600.

Francis Hinton Maule Biological Fellowship

This fellowship was founded in 1901 by Mr. and Mrs. Francis I. Maule as a memorial of their son, Francis Hinton Maule, who was a student in the University during the years 1895–98. It is conferred by appointment of the Faculty and pays the holder the income of $10,000.

Class of 1860 Experimental Science Fellowship

This fellowship was founded in 1870 upon the sum of $10,000 subscribed by the Class of 1860. A deficiency of income, resulting from the depreciation of the value of the securities in which the principal was invested and the lowering of the rate of interest, is paid, by the consent of the donor, from the income of the Magee Professorship of Mining and Engineering, founded by George J. Magee, Esq., of the class of 1860.

By action of the Board of Trustees, taken in 1904, this fellowship was constituted a University Fellowship, to be administered, under the regulations governing the administration of such fellowships, by the Departments of Physics and Chemistry.

The Porter Ogden Jacobus Fellowship

Established in 1905 by the generosity of Mrs. Clara Cooley Jacobus. This Fellowship will be conferred upon

that regularly enrolled student of the graduate school who, in the judgment of the University Faculty, shall have evinced the highest scholarly excellence in his graduate work during the year. The appointee to this fellowship receives the income from an endowment of $25,000 and is expected to devote himself exclusively to study under the direction of the Faculty.

University Fellowship in Chemistry

Founded in 1905 by the generosity of one of the Fellows of Harvard University. The holder of this fellowship receives the income of $10,000.

II. COLLEGE FELLOWSHIPS

Besides the degrees and honors conferred in the regular course, annual fellowships, competitive scholarships, and prizes are offered as special incentives to .study, in the classes or departments with which they are connected.

Only matriculated students who are candidates for a degree are admitted to the competition for these fellowships, prizes, and scholarships, and no one is admitted to such competition who has failed to pass satisfactorily his last preceding examination in any of the departments.

No member of any class is allowed to compete for more than one of the fellowships or scholarships offered to that class.

The names of the fellows, scholars, and prizemen of each year are included in the Honor List for the year.

The funds for the competitive fellowships, prizes, and scholarships are special gifts, and the income is appropriated according to the specific instructions of the donor. They do not belong to the general funds of the University.

Every competitor must have been a member of the

University in full standing for at least two academic years previous to the fellowship examinations.

Every Fellow obtaining one of the competitive fellowships, the income of which is $400 or over, must devote his whole time for one year to study in the department for which the fellowship is provided, under the direction of the professors in that department. He must reside in Princeton, and pass two examinations on his work, unless by a vote of the Faculty he be allowed to study at an approved foreign university, in which case he shall from time to time furnish written reports of his work to the professors in his department. The result of every examination and the reports of work done abroad shall be immediately returned to the Faculty. Any Fellow, resident in Princeton, shall when called upon perform such duties in the department to which he belongs as may be assigned to him by the President at the request of the professors in that department. Any Fellow may be allowed to occupy free of cost in one of the University buildings a room assigned to him by the University authorities, and while occupying such room he shall be regarded as a resident officer of the University, and shall perform such duties in preserving order and decorum in the University edifices as the President and Dean of the Faculty may assign.

Chancellor Green Mental Science Fellowship

This fellowship, originally founded in 1870 upon the annual payment of $600 by the late Chancellor Henry W. Green, was permanently endowed in 1878 by a gift of $10,000 by his widow.

The income of this fund, at the current rate of interest, to be paid quarterly, will be awarded to that member of the Senior class who shall write the best essay on a subject to be assigned by the Department of Philosophy (to be given

in on or before June 1), and who shall stand highest at a special examination to be held in June.

The examination will include the philosophies of Plato, Aristotle, Descartes, Locke, Leibnitz, Hume, Reid, and Kant; also theoretical ethics, metaphysics, psychology, and inductive logic.

Boudinot Fellowships

These fellowships are founded in part upon a bequest of Dr. Elias Boudinot, of New Jersey.

The Historical Fellowship.—The sum of $200 per annum, to be paid quarterly, will be given to the holder of the fellowship, who shall be appointed by the Faculty, upon the nomination of the President and the Professor or Professors of history, for any period not exceeding three years, on condition that he reside in Princeton and devote his whole time to historical research; that he deliver such lectures and conduct such exercises as the President and Professor or Professors of history shall direct, and that he perform such other duties as may be assigned him in accordance with the general regulations respecting the duties of resident Fellows.

The Modern Language Fellowship.—Candidates for this fellowship must have completed the French and German courses of Junior and Senior years, amounting to at least two hours a week in each subject for both terms of both years. The sum of $200, to be paid quarterly, will be awarded to that member of the Senior class who shall pass the best examination in June on the following subjects:

In German—Translation from English into German; the reading at sight of German prose, historical and literary; history of German literature; *Behagel's* Die Deutsche Sprache.

In French—Translation from English into French; a

knowledge of historical French Grammar; the history of French literature; and work in Molière's plays, portions of Pascal, Madame de Sévigné, Voltaire, and Victor Hugo, to be assigned upon application. An essay of not less than four pages (foolscap) in either French or German.

The Fellow shall from time to time during the following year, as may be required by the Professors of Modern Languages, give evidence by papers that he is reading such a course as the Professors may approve.

The E. M. Biological Fellowship

This fellowship will be awarded after a competitive examination on subjects assigned by the Professors in the Department of Biology.

The competition for this fellowship will be open to any member of the Senior class, or to any college graduate who shall have pursued during the preceding year the university course in biology at Princeton, and who shall, in the opinion of the examiners, be deemed competent to pursue the subject advantageously.

This fellowship conveys the use of a table in the National Seaside Laboratory at Woods Holl, Mass., together with all the facilities afforded for the collection and study of animal life during the season favorable for such investigations. In the winter months following this laboratory work the Fellow will pursue his studies at Princeton, and will be required to prepare and submit a thesis embodying the results of his summer researches.

The examination for this fellowship in 1906 will be held in June upon the following subjects:

1. Life-history of higher cryptogams and gymnosperms.
2. Anatomy and embryology of mollusca.
3. Anatomy and embryology of the teleosts and selacians.
4. The histology of the nervous system.

Special Fellowship in English

This fellowship, yielding $500 to the holder, is awarded for the year 1905–1906 through the liberality of Mr. Charles Scribner, of the class of 1875.

PART VI

EXAMINATIONS, STANDING, AND GRADUATION; HONORS; GENERAL ORDERS; AND PUBLIC LECTURES

EXAMINATIONS, STANDING, AND GRADUATION

MODE OF CONDUCTING EXAMINATIONS

All written examinations and written recitations are conducted under the honor system. A student is not watched during an examination by any officer of the University, but he is required to write on his paper a pledge that he has not been guilty of any dishonesty or irregularity in connection with the examination.

The adminstration of the honor system is in the hands of a student committee by whose rules it is the recognized duty of every student to report to the committee any evidence of dishonesty in examination that may come under his observation. If after investigation of such evidence the committee finds a student guilty of dishonesty, it reports his case to the Faculty with a recommendation that he be finally dismissed from the University.

REGULATIONS RESPECTING CONDITIONS AND ABSENCE FROM EXAMINATION

I

Conditions are incurred:

1. By failure to satisfy the requirements of any course. The requirements of a course include both the term work and the examination.

2. By exelusion from an examination. A student shall be excluded by the instructor from the examination in any course who has unexcused absences as follows:

Three or more from the exercises of any one hour course
Six " " " " " " " two " "
Nine " " " " " " " three " "
Eleven " " " " " " " four " "
Fourteen " " " " " " " five " "

3. By absence from an examination. Absence from an examination, due to whatever cause, is counted as a condition if the term grade in the subject is below the passing mark. Every absence from an examination is counted as a condition unless the student presents to the Committee on Examinations and Standing satisfactory evidence that the absence was unavoidable. In all cases of absence from an examination, the deficiency must be made up as if it were a condition.

II

1. A student who, at the end of a term, has conditions amounting to half of a term's work, or more, may not graduate with his class. In applying this rule, (1) not only conditions of that term are counted, but also conditions of a year's standing or more, and all entrance conditions not removed by the beginning of Sophomore year; (2) unavoidable absence from an examination shall be counted as a condition one year after the date of the omitted examination, unless meanwhile the omitted examination shall have been taken and passed. Each entrance condition is counted as equivalent to a condition in one hour of college work.

2. A student of the Department of Civil Engineering thus deficient, or a Freshman who at the end of the first term fails in half of his work or more, may, after the lapse of a whole term, and with the permission of the Faculty, enter the next lower class.

3. Any other student, except a Senior, thus deficient may, after the lapse of a whole term and with the permission of the Faculty, either enter the next lower class, or re-

enter college with an arrangement of studies which will make it possible for him to meet the requirements for his degree by the February following the graduation of his class.

4. A student thus deficient at the end of the first term of Senior year may, with the permission of the Faculty, continue with his class during the second term, with an arrangement of studies which will make it possible for him to meet the requirements for his degree by the February following the graduation of his class.

5. A Senior who, at the end of the Senior final examinations, has conditions, will have an opportunity to be rĕexamined before Commencement unless his conditions amount to half of a term's work or more. In applying this rule all conditions, of whatever term, and also all entrance conditions, are counted. If he then removes all his conditions, he may be recommended to receive his degree with his class. No further opportunity will be given him until the next academic year to remove his conditions and thus qualify himself for his degree.

III

Examinations for the removal of conditions occur as follows:

1. For the removal of entrance conditions opportunities are given in December, during the last week before the Christmas vacation, and also at the regular entrance examinations in June and September.

2. For the removal of conditions incurred at the end of the first term, examinations are held (1) on the days immediately preceding the spring recess, and (2) during the week of the opening of the University in September.

3. For the removal of conditions incurred at the end of the second term, examinations are held during the week of the opening of the University in September.

4. There are no other opportunities for the removal of

a condition by examination, except at the examination period corresponding to the one when the condition was originally incurred, and then only by previous arrangement with the Committee on Examinations and Standing.

5. A condition in an elective course may also be removed by taking and satisfying the requirements of an extra elective course, of the same number of hours and of the same curriculum year. But only one such extra course may be taken in any term.

IV

A fee of $5 will be charged each year for each deficiency remaining after the September examinations for the removal of conditions. This does not apply to entering students.

STANDING

The results of the term examinations are combined with those of the work done during the term to decide the relative standing or rank of the student.

The rank in each course is determined by the instructor, who computes from the term work and examinations the marks of the class and divides the class into five groups in the order of merit.

The first group indicates very high standing and contains not more than ten per cent. of the entire class.

The second group indicates high standing and contains not more than twenty per cent. of the entire class.

The third group indicates medium standing and contains not more than thirty-five per cent. of the entire class.

The fourth group indicates low standing and contains not more than twenty-five per cent. of the entire class.

The fifth group contains the remainder of the class; it indicates very low standing.

The general rank of a student is determined by com-

bining his group numbers in the several courses in proportion to the allotted schedule time of each. The students whose averages are highest, and above an established limit, are assigned to the first general group; those next highest to the second general group, and so on through the general groups.

A report of the standing of each student is made to his parent or guardian by the Registrar at the close of the first term and at the close of the year. The latter report gives also the standing for the whole year.

DEGREES

A student who passes his final examinations is ordinarily recommended by the Faculty for the degree appropriate to his course, and if the recommendation is approved by the Trustees, the degree is conferred at Commencement and the diploma of the University is given.

FINAL RANK AND GRADUATION HONORS

The final rank of members of the graduating class is computed by combining the averages for the several years of the course, except that the average for the Freshman year is omitted in those cases in which it would lower the standing of the student. The Faculty then determines what portion of the class shall be printed as the Honor List—the names of the members of each group being printed in alphabetical order. Special Honors in particular Departments are also awarded.

The first and second general groups thus determined are the Honor Groups of the graduating class, and are designated *magna cum laude* and *cum laude*, respectively.

The higher distinction of *insigni cum laude* and the highest of *summa cum laude* are reserved for very unusual excellence.

COMMENCEMENT SPEAKERS

The student whose individual rank is highest is ordinarily awarded the Latin Salutatory by vote of the Faculty. The Valedictory is awarded with special regard to the qualifications of the student as a valedictorian as well as on the ground of scholarship.

In the award of all degrees and honors, regard is had to the conduct of the student during his course, and any student who has incurred serious discipline may be debarred from the rank to which otherwise his scholarship would have entitled him.

HONORS

REGULATIONS FOR GENERAL AND SPECIAL HONORS

Honors are of two kinds, *General* and *Special.*

I. *General Honors* are awarded for general excellence in studies at the close of each academic year, according to the following provisions: At the close of the Freshman, Sophomore, and Junior years, High General Honors are given to those whose average rank for the year is within the first general group, and General Honors to those whose average rank for the year is within the second general group. At graduation High General Honors are given to those whose final average rank for the whole academic course is within the first general group, and similarly General Honors to those within the second general group. In very exceptional cases the Faculty may also bestow the further distinction of Highest Honors. No Senior who has not taken the Junior year in Princeton shall receive General Honors.

II. *Special Honors* are awarded for excellence in single leading departments of study at the close of the Freshman and Sophomore years and at graduation, according to the following provisions:

Freshmen and Sophomores who stand in the first or second group in any subject receive Special Honors in that subject.

Final Special Honors are based on the work of the Junior and Senior years, as follows: a Junior who maintains a standing for the year not below the second group in each of the courses of his Department and a general standing not below the third general group, is entitled to be a

candidate for Final Special Honors, and as such may substitute for one of the elective courses in his Senior year the Pro-seminary of his Department.

Final Special Honors are of three grades; Highest Honors, High Honors, and Honors.

Highest Honors shall be awarded to the Senior who in Junior and Senior years has maintained a first group standing in each of the courses of his Department and a general standing not below the second general group.

High Honors shall be awarded to the Senior who in Junior and Senior years has maintained a first group standing in at least half of the courses of his Department, with a standing not below the second group in any of these courses, and also a general standing not below the second general group.

Honors shall be awarded to the Senior who in Junior and Senior years has maintained a standing not below the second group in each of the courses of his Department and a general standing not below the third general group.

Special Honors may be awarded to a Senior who has not taken the Junior year in Princeton.

GENERAL ORDERS

TERMS AND VACATIONS

The year is divided into two terms of eighteen weeks each.

The first term of the present academic year (1905–1906) began on Wednesday, the 20th of September, 1905, and ends on Wednesday, the 7th of February, 1906. The second term begins on Thursday, the 8th of February, 1906, and ends on Wednesday, the 13th of June, 1906, the day of the annual Commencement.

REGULATIONS CONCERNING REGISTRATION AND THE CHOICE OF ELECTIVES

Rules for Registration

At the beginning of the academic year each undergraduate student shall report in person at the Registrar's Office before 3 P. M. on the Thursday on which the University opens, and register his full name, home address, and Princeton address.

After the Christmas vacation each undergraduate student shall report at the Registrar's Office before 10 A.M. on the Thursday on which the vacation ends, and register his name.

In every case of neglect or delay in registration three absences will be recorded against the student for each day that the registration is delayed. Serious cases will be punished by such an increase in the number of absences recorded as the Committee on Attendance may direct, by putting the student on probation, by suspension, or otherwise, as the Faculty may determine.

Any absence from a class exercise incurred in the three days before a vacation or before or after a recess shall count as equivalent to two absences incurred at any other time.

Choice of Electives

It is very desirable to obtain from each student his choice of electives as early as possible, so that the rolls of the elective classes may be made out before the opening of the term. The students are therefore requested to report to the Registrar their choice of electives for the first term of the next academic year on or before the day on which the second term examinations begin. Changes which the student desires to make in his choice may be made by letter to the Registrar in the summer vacation. No changes will be allowed after the beginning of the first term.

The choice of electives for the second term must be reported to the Registrar on or before the third Monday in January.

The penalty for delay in reporting the full list of electives for the term shall be the record of one absence each day for each elective not reported until the list is complete; this delay to be reckoned from the registration at the beginning of the academic year or from the third Monday in January. Serious cases shall be punished more severely as the Faculty may determine. If the student enter any elective class after exercises with that class have been held, he shall be reported by the instructor as absent from those exercises.

REGULATION OF ATTENDANCE

Committee on Attendance

1. The Committee on Attendance has charge of all matters pertaining to attendance on chapel and class exercises. It meets every Thursday, from 1.30 P.M. to 2.30 P.M., in the Faculty room, University Offices.

Divisions of the Year.

2. In the regulation of attendance, the academic year shall be divided into four quarters.

Excuses

3. Requests for permission to be absent from Princeton should be presented to the Committee on Attendance, or in special cases to the Dean of the Faculty..

4. Excuses for absence must always be presented in person to the Committee on Attendance. To be accepted they must be presented (or at least left at the Registrar's Office) not later than the second meeting of the Committee after the return of the student to his academic exercises.

5. Students who absent themselves from town over Sunday and who desire that the absence from chapel thus incurred shall be excused must file a statement in the Registrar's Office, on a form provided by the office, during the week immediately preceding or following the absence. Such excuses shall not be granted more than *twice* in any one quarter, and further absences thus incurred will be counted on the gratuity. No excuse will be granted unless application is made within a week of the absence. Students may, however, go *home* over Sunday, and absences so incurred will be excused on filing at the Registrar's Office, on a special form provided by the office, a request by parent or guardian that such absence be excused. Such excuses to be valid must be presented during the week preceding or following the absence.

6. Absences necessarily incurred by the University musical clubs, in connection with a tour taken in vacation by permission of the Faculty, will be excused on recommendation of the Committee on Non-athletic Organizations.

7. Absences necessarily incurred by the University athletic teams in connection with intercollegiate games

will be excused on recommendation of the Committee on Outdoor Sports.

Attendance on Chapel Exercises

8. Every undergraduate student is required to be present twice each week at morning prayers in the chapel unless excused by the President or the Committee on Attendance. If a student at any time falls short of this requirement by four absences, he must during the next two weeks attend four times in addition to the four times above provided for. Failure to comply with this rule will render him liable to suspension.

9. Every undergraduate student is required to attend the stated services in the chapel on Sunday unless excused by the President or the Committee on Attendance. If a student not thus excused shall in any quarter absent himself more than three times he will become liable to discipline.

Attendance on Class Exercises

10. Every undergraduate student is required to attend the scheduled exercises of his class. When his absences in any quarter exceed a certain number (10 for Seniors and Juniors, 8 for Sophomores, Freshmen, and Specials), he becomes liable to discipline, which in ordinary cases shall be the imposition of extra work, though other penalties may be imposed at the discretion of the committee. After the first penalty has been imposed, any further irregularity in attendance in that quarter renders the student liable to suspension.

11. If a student is irregular in his attendance on the exercises of any instructor, the instructor may impose extra work; and, in case the absences exceed one-sixth of the exercises with that instructor, the student will be debarred from the regular examination. A student thus debarred

from examination shall be dealt with according to the regulations for conditioned students.

PUBLIC WORSHIP

Prayers are offered in Marquand Chapel every week-day morning.

Divine service, under the superintendence of the President, is held in Marquand Chapel on Sunday at 11 o'clock A.M.

Permission to attend divine service elsewhere than in the chapel, on special occasions, is granted on application to the President. For permission to attend regularly one of the churches of the town on Sunday mornings, a written request from the parent or guardian of the applicant must be presented to the President.

COMMENCEMENT EXERCISES

The Annual Commencement takes place on the Wednesday preceding the last Wednesday but one in June.

The Baccalaureate address of the President to the graduating class is delivered on Sunday of Commencement week.

The Class Day exercises of the graduating class are held on Monday of Commencement week. The annual meetings of the Literary Societies, the annual meeting of the Alumni Association of Nassau Hall, and the Lynde Prize Debate are held on Tuesday.

PUBLIC LECTURES

TRASK LECTURES

The income from $10,000, presented by Mr. Spencer Trask of New York City, is available to secure the services of eminent lecturers to deliver public lectures before the University on subjects of special interest.

THE ANNE M. LOOMIS RECITALS

Established in 1904 by Mrs. Willard Humphreys, in memory of her mother, for the promotion of musical culture in the University. The terms of Mrs. Humphreys' gift provide for two song recitals annually; the first to be devoted to folk songs, and the second to art songs, or song classics.

PART VII

GROUNDS AND BUILDINGS, AND INSTITUTIONS CONNECTED WITH THE UNIVERSITY

GROUNDS AND BUILDINGS

The Campus

During the first decade of its existence, the College of New Jersey owned neither grounds nor buildings. The College exercises were held either in the house of the President or in convenient rooms elsewhere.

From the beginning, however, it had been the purpose of the Trustees to erect college edifices in a central part of the state and there locate the institution permanently. In accordance with this plan it was voted, May 15, 1751, that the necessary buildings should be erected at New Brunswick, provided the citizens of that place secured to the College the sum of one thousand pounds proclamation money, two hundred acres of woodland, and ten acres of cleared land. An offer of these terms was also made by the inhabitants of Princeton at the same meeting of the Trustees, and when, in September, 1752, it was learned that New Brunswick had not complied with the required terms, the Princeton offer was formally accepted. The particular tract of ground which became the site of Nassau Hall was given by Nathaniel Fitz Randolph, and the money guarantee was furnished by Messrs. John Stockton, Thomas Leonard, and John Horner, all wealthy residents of the village.

The University campus consists roughly of three tracts of land adjoining each other. The central portion, of about two hundred and twenty-five acres, forms a quadrangle bounded by Nassau Street on the north, Washington Road on the east, Stony Brook on the south, and the line of the Pennsylvania Railroad on the west.

The western portion, known as Springdale Farm, which was presented to the University in 1905, consists of two hundred and twenty-one acres, lying between the Theological Seminary and Stony Brook.

The other portion, lying on the eastern side of Washington Road, was also presented to the University in 1905. It consists of ninety-three acres and includes the land lying between the line of the clubs on Prospect Avenue and Stony Brook.

All the University buildings are heated by steam and lighted with electricity, and in addition, with the exception of those in Reunion Hall, all studies are provided with open fire-places. Every entry in each of the dormitories is provided with a lavatory, containing shower baths and other toilet facilities.

Nassau Hall

Nassau Hall, the oldest and historically the most interesting building on college property, is picturesquely situated on the most elevated point of the front campus. At the time of its completion in the autumn of 1756, it was the largest academic building in the country. It was designed by Robert Smith, of Philadelphia, and was built of sandstone quarried in the neighborhood, and is now covered with ivy. In its three stories and basement it formerly contained, exclusive of the prayer hall or chapel, which occupied the central portion of the building, sixty rooms which included refectory, library, and recitation rooms. It was named Nassau Hall in honor of William of Nassau, Prince of Orange, William III of England. During the Revolution it served at different times as hospital and barracks for American and British troops; and here from June to November, 1783, the Continental Congress sat.

Remodelings of the interior, consequent upon two disastrous fires in the last century, have strikingly altered the

arrangement of the building. The upper floor contains the Histological Laboratory and the Laboratory of Experimental Psychology; on the second floor may be found the Department Library of Geology and Paleontology and the office of the Curator of the E. M. Museum, while the first floor is occupied by the Paleontological Laboratory and the Geological lecture room. The large central hall on this floor has been remodeled and is now used as the meeting room of the Faculty of the University.

The Dean's House

A house for the President of the College was erected in 1756, and until 1878, when Prospect was acquired by the Trustees, it continued to be the presidential residence. Since the creation of the office of Dean of the Faculty the house has been the Dean's official residence.

The University Offices

In 1803 a stone building containing recitation rooms, a library, and apartments for the two literary societies of the College, the Cliosophic and the American Whig, was erected west of Nassau Hall. This building is now used as the executive headquarters of the University, and contains the Office of the Treasurer, the Office of the Registrar, and the Office of the Curator of Grounds and Buildings.

Prospect

Prospect, the official residence of the President of Princeton University, is one of the oldest estates in the town, although it was not acquired by the University until 1878. The mansion, erected in 1849, is beautifully situated in extensive grounds, the main entrance to which opens on McCosh Walk.

Halsted Observatory

This observatory is appropriated to scientific work, chiefly in the department of astronomical physics. The building, the gift of the late General N. Norris Halsted, is of stone, with a dome thirty-nine feet in diameter, the power for moving it and its sliding shutter being furnished by an electric motor and a storage battery. In it is mounted the great equatorial, of twenty-three inches aperture and thirty feet focal length, made by the Clarks, and provided with all the usual accessories, micrometric, spectroscopic, and photometric. The building also contains a clock and a chronograph, and is in electric connection with the Observatory of Instruction. At present the principal work is the photometric observation of variable stars under a grant from the Carnegie Institution.

Observatory of Instruction

This observatory is devoted entirely to the use of students and is fully equipped for its purpose. It possesses an equatorial (by Clark) of 9½ inches aperture, with a full complement of spectroscopic and other accessories. It has also a 9-inch reflector; a meridian circle with circles 2 feet in diameter, and a 4-inch telescope; two transit instruments with 3-inch telescopes, both of them arranged for use as zenith telescopes; a 3-inch prime-vertical instrument; a chronograph; two standard clocks and five subsidiary clocks, one in each observing room. There are also a number of sextants, two chronometers, and all the other auxiliary apparatus required for carrying out the work in the courses on practical astronomy, to accommodate which a room for lectures and recitations has been added.

Dickinson Hall

This building, the gift of John C. Green, Esq., is used for the class-room work of the Academic Department. It

was erected in 1870 from the designs of George B. Post, of New York, and is built of local stone trimmed with Connecticut limestone. It was named by Mr. Green as a memorial of Jonathan Dickinson, the first President of the College. In 1876 extensive alterations were made in the building and the exterior was much changed.

The first and second floors contain lecture rooms sixteen feet high and admirably lighted; over these, on the third floor, is the Examination Hall, eighteen feet high, containing a stage for public speaking, and accommodating about four hundred persons.

The School of Science Building

The School of Science Building was erected in 1873 and liberally equipped by John C. Green, Esq., a benefactor of the institution in many ways. It is devoted to the purposes of instruction and research in the John C. Green School of Science and contains the lecture rooms and laboratories of that department.

On the first floor are located the physical laboratories and lecture rooms, the civil engineering lecture rooms and laboratories, and other class-rooms. On the second floor are the biological and astronomical lecture rooms, the biological laboratory, and the drawing-rooms of the department of graphics. In the graphics room is a set of duplicates of the more important Olivier models of ruled surfaces; here also are the Björling developable surface models, a number of the Muret set, and the Shröder mathematical models. On the third floor are the collections of the Museum of Biology and the private working rooms and laboratories of the Curator.

In the basement of the building are other recitation rooms and the machine shops of the School of Science, and connected with it is the dynamo building of the Department of Electrical Engineering.

Marquand Chapel

The chapel was the gift of the late Henry G. Marquand, Esq., of New York. The cornerstone was laid in June 1881. The building is constructed of brownstone, and is cruciform in shape. The apse contains the organ and choir stalls. The gallery over the main entrance is used in part for visitors. The faculty stalls are along the sides of the building. The mural and window decorations are noteworthy. The St. Gauden's heroic bronze high relief of the late President McCosh, erected by the Class of 1879, faces the visitor on entering; by its side are the low relief memorial tablet to Professor Joseph Henry, and the bronze tablet to Professor Arnold Guyot, set in a fragment of a Swiss glacial boulder presented by the authorities of his native city, Neuchatel. On the east wall of the south transept is the memorial tablet to the Rev. James Ormsbee Murray, first Dean of Princeton University, presented to the University in November, 1901. This tablet consists of rose-colored Numidian marble, upon which is a medallion-portrait in bas-relief of white marble, surrounded by an embossed wreath.

The south and north windows, by Lathrop, are in memory of Frederick A. Marquand, of the class of 1876, and William Earl Dodge, of the class of 1879. The west window, by Tiffany, is the gift of Mrs. T. Harrison Garrett, of Baltimore, in memory of her son, Horatio W. Garrett, of the class of 1895. The Sunday and daily morning services are held in the chapel.

Alexander Hall

This building, the gift of Mrs. Charles B. Alexander, is used for Commencement and Class Day exercises, public lectures, and other university gatherings of a general character. The auditorium is arranged with sloping floor and high gallery so that an audience of fifteen hundred

may be comparatively near the speaker. The rostrum and President's chair are finished in colored marbles and polychromatic mosaic. Behind the rostrum is a row of mosaic wall pictures, designed by J. A. Holzer, illustrative of the Homeric story. A large organ built by George Jardine and Son, embodying the most recent features of organ construction, stands in one of the small galleries near the rostrum.

The building is constructed of granite and brownstone, and is Romanesque in style. The front toward the south exhibits a large rose window beneath a gable roof, and between the central structure and two side towers are two fine round-arched openings which lead into a wide ambulatory encircling the building. From this ambulatory the rostrum and auditorium are reached. The two side towers and two smaller ones at the rear enclose staircases, which lead to the auditorium gallery. The building, which was designed by William A. Potter, has been decorated with sculpture under the direction of the architect, by J. Massey Rhind. Beneath the rose window on the south front is a seated figure of Learning, on one side of which are allegorical figures of Architecture, Sculpture, Painting, Poetry, Music, and Belles Lettres, on the other of Oratory, Theology, Law, History, Philosophy, and Ethics. There are other sculptures about the rose window and in the niches around the ambulatory.

Isabella McCosh Infirmary

The Infirmary, built by alumni and friends of the University, contains all the modern arrangements of the best hospital construction. The buildings are pleasantly located on the hillside below Prospect, commanding every advantage of position as to air, outlook, and sewerage. The two buildings are isolated from one another and are connected only by a long corridor. One of these buildings

is devoted to the treatment of all cases not requiring special isolation. The other provides for the reception of those cases in which isolation is desirable. While the health of Princeton is exceptionally good, the occasional illness incident to so large a body of students demands accommodation suitable for its care.

The Sanitary Committee of the University has the Infirmary under its care. It is thus brought under constant and careful supervision. It is open to the reception of students on the certificate of an attending physician. As the Infirmary is without endowment, each student by the payment of a small fee secures for himself, in all cases of ordinary illness, needed care, including board, nursing, and laundry, everything but physician's fees and medicines, without charge. Where special nursing is required, an additional charge covering actual expenses will be made; and when an illness covers a period of more than one week board will be charged for after the first week at the same rate that the student would pay at his usual boarding place.

The Gymnasium

The Gymnasium, erected by the alumni at a cost exceeding $280,000, is situated toward the southwest end of the campus, adjoining the Brokaw swimming-pool, which has been architecturally combined with it. In style of architecture this building conforms to the academic Gothic of Blair and Little Halls, and the material used in its construction is the same Germantown stone. These three buildings, harmonizing in style and general effect, form an almost unbroken western boundary to the campus, nearly a quarter of a mile in length.

The façade of the Gymnasium comprises two full stories and a tower. The lower story contains a trophy hall, finished in English oak, and the upper floor is devoted to committee rooms, superintendent's quarters, and other necessary apartments.

The Gymnasium proper is entered through the trophy hall. It is 166 feet long and 101 feet wide, and is almost as high as the two-story portion of the building. Its roof is supported only by the side walls, so that the interior is unobstructed. About its walls is an elevated running-track over 150 yards around, and in the basement are locker rooms, bowling alleys, and places for various forms of indoor exercise.

It contains, besides the main hall with the apparatus for physical training, hot and cold shower and plunge baths and dressing rooms. The Gymnasium is open daily from 10 A.M. to 10 P.M. throughout the University year. The director is in attendance during these hours to examine, advise, and instruct all who may desire his services.

DORMITORIES

West College

West College, built in 1836, is the oldest dormitory building still standing. It forms the western side of the central quadrangle and contains forty suites of rooms.

Reunion Hall

Reunion Hall, erected in 1870 on the site of Professor Joseph Henry's residence, was so named to commemorate the reunion of the Old and New Schools of the Presbyterian Church. Prominent members of each party gave the funds by which it was built, and its cornerstone was laid by the officers of the General Assembly.

Witherspoon Hall

Witherspoon Hall, named after the president of Revolutionary days, the signer of the Declaration of Independence, was built in 1877 for the purpose of affording more modern and comfortable rooms than had previously been considered

necessary. It contains sixty suites. Built of gray stone with brown stone trimmings in the Victorian Gothic style, it towers above the neighboring buildings on the western section of the campus and forms the north side of the quadrangle enclosed by Edwards and Stafford Little Halls.

Edwards Hall

Edwards Hall, a brownstone Gothic building, is named after President Jonathan Edwards and contains eighty-four rooms. It was erected in 1880.

Albert B. Dod Hall

Albert B. Dod Hall, the gift of Mrs. David Brown, of Princeton, was erected in 1890 in memory of her brother, Professor Albert Baldwin Dod, of the class of 1822. It is a long, massive structure in the Italian style, of granite with limestone trimmings, while the columns flanking the entrance are of Georgia marble. The carving over the main entrance is Byzantine. The building has accommodations for one hundred students.

David Brown Hall

David Brown Hall, a dormitory of fifty suites, is another gift from Mrs. Brown. It was erected in 1891 in memory of her husband. It is modeled after a Florentine Renaissance palace, and forms a hollow square of four stories enclosing a courtyard 67 by 44 feet. The first two stories are of granite, the two upper stories Pompeiian brick. A granite seat runs the length of the front façade. This dormitory is situated at the edge of Prospect gardens and overlooks the long slope down to the Stony Brook valley and the landscape beyond.

Blair Hall

Blair Hall, a Sesquicentennial gift of the late Hon. John Insley Blair, was the first representative of the style of

architecture which has since been adopted for the later Princeton buildings. Blair Hall is built of white Germantown stone, in the English collegiate Gothic style, and contains fifty-three suites. The square massive central tower is pierced by an archway which, with the terraces and flight of steps, forms the entrance to the campus from the southwest.

Little Halls

Adjoining the southern end of Blair Hall and following out that building's line and style on a slightly lower level of ground is Stafford Little Hall, a dormitory containing sixty-two suites of rooms, the gift of the late Henry Stafford Little, of the class of 1844. It was erected partly in 1899 and partly in 1902 and forms, with Blair Hall at one end and the new Gymnasium at the other, a series of architecturally harmonious buildings marking the western confines of the campus.

University Hall

University Hall, at the junction of Nassau street and University Place, was originally planned as a hotel, but now serves as a dormitory, its revenue going to the support of the E. M. Museum.

The Pyne Buildings

The two other dormitories on Nassau street are the Upper and Lower Pyne Buildings, the latter being on the corner of Nassau and Witherspoon streets. These buildings were erected in 1896 by M. Taylor Pyne, Esq., of the class of 1877, and are in the half-timbered Chester style.

Seventy-nine Hall

Seventy-nine Hall is a development of the Tudor Gothic, so extensively used at Oxford and Cambridge, and in the

recent buildings at Princeton. Its site, however, on Washington Road and opposite Prospect Avenue, is so far from Blair and Little Halls and the Gymnasium, that advantage has been taken of the opportunity to change the materials and so give it a more individual character. The walls are of red brick, the trimmings of Indiana limestone.

The building is two stories in height, with a basement. Toward the middle and directly opposite Prospect Avenue is a tower which forms the principal feature of an asymmetric composition. The Hall accommodates forty-eight men.

THE UNIVERSITY LIBRARY

ERNEST C. RICHARDSON, Ph.D., Librarian.
JUNIUS S. MORGAN, A.M., Associate Librarian.
V. LANSING COLLINS, A.M., Reference Librarian.
ENNO LITTMANN, Ph.D., Librarian Oriental Department.
WILLIAM W. BISHOP, A.M., Chief of Catalogue Department.
MISS CHARLOTTE MARTINS, Chief of Purchase Department.
CHARLES A. GEORGE, A.M., Chief of Classification Department.
RALPH H. PEABODY, Assistant in charge of Circulation Department.

The Library began with the College, Governor Belcher, the patron of the College, directing his especial attention and interest to it, and leaving to it his collection of 474 volumes. When the first catalogue was printed in 1760, the Library consisted of about 1,300 volumes. It was increased largely in the sixties, but was decimated during the Revolution and in 1796 numbered only 2,300 volumes. It was partly destroyed by fire in 1802, but shortly after its size was fully restored by gifts. In 1816 it numbered 7,000 volumes, in 1839, 8,000, and in 1850 it had advanced to 9,313 volumes. In 1868 it contained but 14,000 volumes without separate building or librarian.

THE CHANCELLOR GREEN LIBRARY

In 1868 the Elizabeth Fund for the purchase fo books was created by John C. Green, Esq., and soon afterward he erected a library building (in 1872–3) named in honor of Chancellor Green. This Chancellor Green Library building, fitted throughout with the most modern system of heating, ventilation, and electric lighting, is the working library of the University for undergraduates, containing the standard

and latest works in all departments and especially fitted for study. In addition the Chancellor Green Library contains the following special collections:

The Charles Ewing Green Alcove. The alcove facing the public entrance to the Chancellor Green Library has been set aside as a memorial to the late Charles Ewing Green, LL.D., class of 1860, for many years a Trustee of the University, and as the administrator of the John C. Green estate, one of Princeton's most generous and consistent benefactors. To commemorate the active interest which he always took in the Chancellor Green Library, as well as in the general library development of the University, Mrs. Charles E. Green has erected in this alcove a memorial tablet, and is filling the shelves with books on classical philology. There are at present 2,607 volumes in this collection.

The Class of 1883 Library of Political Science and Jurisprudence, founded and endowed in 1893. Contains at present 864 volumes. Location: alcove X, gallery.

The Class of 1889 Library of American History, established and endowed in 1899. At present 365 volumes. Location: alcove C, main floor.

The Class of 1878 Library of Chemistry, established and endowed in 1889. Numbering at present some 50 volumes, distributed among the collections relating to this subject. Location: alcove Z, gallery.

The Main Library Building

The Chancellor Green building having long been crowded beyond its calculated capacity, provision was made on the occasion of the Sesquicentennial by the late Mrs. Percy Rivington Pyne for a new building with a capacity of 1,200,000 volumes, besides adequate administration rooms, twenty rooms for instruction in research, and a large room for the exhibition of rare books. This building,

of Longmeadow stone, in the Oxford Gothic style, forms a hollow quadrangle of about 160 feet square, connected with the Chancellor Green Library by a delivery room of 50 by 20 feet. It is fitted with modern improvements in heating, ventilation, stacks, electric elevators, interior telephone, etc., and has shelves at present sufficient for about 500,000 volumes. On the exterior of the western tower gateway are statues of President Witherspoon and President McCosh, James Madison, class of 1771, fourth President of the United States, and Oliver Ellsworth, class of 1766, second Chief Justice of the United States Supreme Court.

The Central Collection

The general collection which occupies the united buildings consists of 195,732 volumes and about 51,000 unbound periodicals and pamphlets. It includes, in addition to those already mentioned, the following special collections:

Special Collections

The Pyne-Henry Collection of Manuscripts, relating to the history of the University, presented by M. Taylor Pyne, Esq., '77, and the Hon. Bayard Henry, '76. 1,382 documents. Location: exhibition room.

The Morgan Collection of Virgils, presented by Junius S. Morgan, Esq., '88. 659 volumes. Location: exhibition room.

The Pierson Civil War Collection, presented by John S. Pierson, Esq., '40. 5,700 volumes; 1,500 bound periodicals; 2,500 unbound periodicals; including also several thousand clippings. Location: stack, fourth floor.

The Princeton University Collection, including the large collection of Princetoniana presented by Professor William Libbey, '77. 3,665 volumes. Location: stack, fourth floor.

The Class of 1875 Library of English Poetry and Drama. 1,166 volumes, distributed among the collections relating to these subjects.

The Garrett Collection of Oriental Manuscripts, consisting of 1,770 manuscripts, chiefly in Arabic, deposited for the present in the University Library. This collection is most exhaustive and includes books on law, medicine, mathematics, natural sciences, poetry, history, biography, geography, travels, rhetoric, grammar and lexicography, as well as works on the Mohammedan religion and the exegesis of the Koran. Custodian: Dr. Littmann. Location: northwest corner, second floor, left.

Special collections, other than of books or manuscripts, are:

The Garrett Collection of Coins, deposited in the University Library by Robert Garrett, Esq., '97. This collection, embracing also specimens from many foreign countries, contains an unusually fine series of American coins. In addition to the coins that have been used for money the collection includes many medals commemorative of notable historic events and persons.

The Hutton Collection of Death Masks, presented by the late Laurence Hutton, A.M. 74 masks. Location: exhibition room.

Seminary and Other Special Libraries

Certain rooms in the Main Library Building are available for the use of seminaries, organized under the rules of the Faculty for "the development among our higher students of independent scholarly ability by extensive advanced study and training in the methods of original research." Several rooms have been assigned and provided with special libraries, partly by loan from the main collection, but chiefly by special endowment and purchase. The following have been established:

The Philosophical Seminary. Founded by Mrs. C. B. Alexander (ethics), and by the Class of 1882 (logic and metaphysics). 1,781 volumes; 1,262 theses. Location: southeast corner, second floor.

The Economic Seminary. Founded by the Class of 1888. 1,495 volumes. Location: southeast corner, first floor.

The Seminary in Archæology and Ancient Art. Founded by various alumni and friends. 617 volumes. Location: stack, third floor.

The Classical Seminary. Supported by a friend of the University. 5,665 volumes; 20,360 theses. The Classical Seminary at present occupies five rooms in the southwest corner of the building.

The English Seminary. Founded and supported by Charles Scribner, Esq., '75. 1,514 volumes; 674 theses. Location: northwest corner, second floor.

The Romance Seminary. Founded by the Class of 1890. 1,647 volumes; 178 theses. Location: northwest corner, first floor.

The Mathematical Seminary. Founded by the Hon. John L. Cadwalader, '56; Professor M. Allen Starr, M.D., LL.D., '76; David B. Jones, Esq., '76; Thomas D. Jones, Esq., '76; Chandler W. Riker, Esq., '76; and the Hon. Adrian Riker, '79. 1,882 volumes; 920 theses. Location: northwest corner, second floor.

History. Founded by Mr. and Mrs. M. Taylor Pyne in memory of Robert Stockton Pyne. 2,047 volumes. Location: southeast corner, second floor.

Germanic Languages. Founded by the Class of 1891, and including the library of the late Professor Willard Humphreys. 1,980 volumes; 127 theses. Location: southeast corner, first floor.

Semitic Languages. 713 volumes. Location: northwest corner, second floor.

Department Libraries

These are libraries selected from the general collection and kept in proximity to the corresponding laboratories. The following are organized:

Astronomy; containing at present about 1,200 volumes and 519 theses. In the Working Observatory.

Biology; supported by Charles W. McAlpin, Esq., '88. About 1,000 volumes, 106 theses. In the Biological Laboratory.

Botany; containing 509 volumes. In the School of Science Building, second floor.

Geology and Paleontology; about 2,400 volumes. In Nassau Hall, second floor, western end.

Engineering, including the Class of 1878 Library of Engineering; about 900 volumes. In the School of Science Building, second floor.

Use of the Library

The Library is open from 8 A.M. until 10 P.M. during term time, and from 9 A.M. until 1 P.M. in vacation.

Books may be drawn by all officers and students of the University and Theological Seminary, and by any person properly introduced. The number of books which may be taken is limited to three in the case of students, with the exception of Seniors, who may take five. Officers, Fellows, and graduate students may take any reasonable number. Books may be kept by undergraduates for two weeks, by Fellows and graduate students for four weeks, and by officers for any reasonable time. All books may be renewed when due, unless wanted by some one else.

Fines are charged at the rate of two cents a day on all books kept overtime. If an overdue book is wanted at the Library for any reason, it may be sent for and a charge of ten cents for messenger made. Postal cards are sent as

a reminder of books overdue only when the books are wanted by others. No books may be drawn while there are unpaid fines.

The Hall Libraries

The two literary societies—the Whig and the Cliosophic—have catalogued libraries of more than 10,000 volumes each, and the religious society, the Philadelphian, one of 1,000 volumes.

The Theological Seminary Library

The Library of the Princeton Theological Seminary contains 74,300 volumes, which are distributed in two buildings. The one, the general library, is open to the students of the University for consultation and loan of books on Saturday, from 9 A.M. to 1 P.M., and on every other week-day from 9 A.M. to 1 P.M. and from 2 to 4 P.M. The other, the reference library, is open on every weekday from 9 A.M. to 1 P.M., from 2 to 5 P.M., and from 7 to 10 P.M.

Summary of Libraries

University Library, ...	195,732
Hall Libraries, ...	21,000
Theological Seminary Library, ...	74,300
Total (exclusive of pamphlets and duplicates),	291,032

SOCIETIES

Literary Societies

The Cliosophic and American Whig Societies were founded prior to the Revolution. They are conducted by the undergraduates, but also include in their organization graduates and officers of the University. Each possesses a valuable library of over 10,000 volumes. The old halls in which they were accustomed to meet, becoming too small for their accommodation, were removed about 1890, and large and handsome buildings of white marble were erected near the old sites. Both Societies pursue courses of literary exercises, award numerous prizes for orations, essays, and debates, and grant diplomas to their respective graduates.

A generous competition for University honors has always prevailed between them. On the evening before Commencement representatives of the Societies from the Senior class engage in a public debate. During Commencement week representatives from the Junior class engage in a competition in oratory. The details respecting the Lynde debate and Junior orations will be found on later pages.

The Philadelphian Society

The Philadelphian Society is an institution of undergraduates for the promotion of the religious interests of the University, particularly of the members of the Society. It was founded in 1825. Devotional meetings are held every Thursday evening, and under its auspices the devotional study of the Bible and foreign missions is facilitated.

It has the exclusive use of two buildings. Murray Hall, erected in 1879 from a bequest left for the purposes of the Society by Hamilton Murray, of the class of 1872, contains an auditorium for public worship and a library. Dodge Hall, connected with Murray Hall by an ambulatory, is the gift of the late Mr. William E. Dodge and his son, Cleveland H. Dodge, of the class of 1879, in memory of the late W. Earl Dodge, of the same class. It contains four rooms for the religious meetings of the four classes, a handsomely furnished reading room, containing current periodicals and recent fiction, committee rooms, and the apartments of the Secretary. The privileges of this building are extended to all the students of the University irrespective of their relation to the Philadelphian Society.

The St. Paul's Society

The St. Paul's Society, a religious organization composed of those of the undergraduates of the University who are members of the Protestant Episcopal Church, was founded in 1875. To its care is intrusted a number of mission chapels wherein members of the Society, lay readers licensed by the Bishop of New Jersey, conduct services every Sunday. Under its auspices a course of sermons is delivered annually in Trinity Church. Bible classes are held in Dodge Hall, and meetings are held in an attractive room provided for the use of the Society by Trinity Parish, in the Potter Memorial House, situated on Mercer street, adjoining Trinity Church. The annual election of officers is held on the fourth Wednesday of April.

MUSEUMS

The E. M. Museum of Geology and Archæology

This Museum, occupying the eastern wing of Nassau Hall, contains collections which are distributed in the three general departments of geology (including mineralogy), paleontology, and archæology. Their arrangement is especially adapted to the purposes of comparative study.

In the Geological Department a special room contains a unique collection of over 5,000 specimens of erratic boulders and drift materials from Switzerland. There is also a special room devoted to the typical rocks and fossils of the State of New Jersey. A collection of the typical rocks of the State of New York represents the series as described in the Geological Survey of that State.

There is in this department a large collection of minerals, chiefly crystals, now stored in the John C. Green School of Science, containing about 2,600 specimens, bequeathed to the University by the late Archibald MacMartin of New York. The perfection of the specimens, and the number of localities represented in each family, make this collection one of special value.

Paleontological Department.—The eastern hall contains the main collection; on the platform are the skeletons of a Mastodon, an Irish Deer, a Cave Bear, and some of the extinct birds of New Zealand; also the skulls of *Uintatherium* and a remarkably complete skeleton of *Cervalces*. There are mounted casts of the gigantic reptiles and mammals of the secondary, tertiary, and quaternary ages. Surrounding the room is a very perfect collection of vertebrate and inverterbrate fossils from Europe and Amer-

ica, illustrating the principal organic forms of all the geological epochs. The typical fossils selected agree, as far as possible, with those mentioned in *Dana's* Geology, as characteristic of different geological periods. Included in this series are the fine Eocene and Miocene fossils, many of which are type specimens, procured in the West by the various Princeton collecting parties. There is also a series of fossil insects and plants from Colorado, most of which are also types. Altogether the number of fossils, not counting duplicates, is 15,000.

ARCHÆOLOGICAL DEPARTMENT.—The collections in this department are stored at present in the south stack of the University Library for lack of proper exhibition room.

America is represented by the pottery and human remains of the mound builders, by several hundred specimens of Mexican and Peruvian pottery, and by a number of recent Indian relics. The interesting ethnological collection of objects, chiefly from Alaska and New Mexico, which Dr. Sheldon Jackson presented to the Theological Seminary of Princeton, has been transferred to this Museum by the Trustees of that institution, with the consent of the donor. There is also a series of models of the cliff-dwellings and pueblos of the Southwest, executed under the direction of Dr. Hayden.

Below the eastern hall are the lecture and working rooms.

THE MUSEUM OF BIOLOGY

The biological collections have been chiefly made from the endowment fund of the John C. Green School of Science. There have also been many smaller donations to the Museum from time to time. The collections are placed in the large upper hall of the School of Science building, and are at present especially rich in osteological specimens. On the

same floor are the laboratory and working rooms. The collection of verterbates includes a large number of mounted and disarticulated skeletons of mammals, reptiles, birds, and fishes. Among the invertebrates are a series of ascidians, echinoderms, molluscs, crustanceans, insects, worms, corals, sponges, and microscopic preparations of small forms. Students may apply to the Curator for access to the catalogue and cases containing the skeletons.

The Herbarium is on the second floor of the School of Science building, and is arranged as a museum of the botanical collections, also as a working laboratory for students. The plants are classified according to the *Pflanzen-familien* of Engler and Prantl, and include specimens from the different sections of the United States, and from South America, Europe, and Australia. There are extra specimens for laboratory use and dissecting, together with compound microscopes, reagents, anatomical instruments, section cutters, models, diagrams, and books of reference.

During the last year, through the courtesy of Professor McClure, the Zoological Museum has received skeletons of a young Asiatic bear, of the Nilghai (*Boscelaphus*), and of an Orang-utan; also, by purchase, skeletons of the Roe-deer (*Capreolus caprea*), and of the Tasmanian devil (*Sarcophilus ursinus, Geoffr.*).

Department of Ornithology.—The ornithological collections of the University form a department of the Museum of Biology. Starting with a representative local collection of the birds of New Jersey, which are mounted and on exhibition in the halls of the Museum, these are supplemented in the laboratories by the following groups of unmounted birds, which show the relations of the local collection to the avifauna of the world at large. A North American collection, a European collection, an Australian collection, an Indo-Asian collection, a South American collection. There are in all some sixteen thousand individuals.

The South American collection, for which the Hatcher Expeditions to Patagonia are largely responsible, owing to the interest of Mr. John W. Garrett, '95, of Baltimore, was materially augmented by Professor William B. Scott, during his stay in Argentina. Very advantageous exchanges with the Museo La Plata were made. Through the liberality of friends of the University, valuable ornithological material was purchased from S. Pozzi, Esq., of La Plata. These collections are especially valuable in view of the extensive work assumed by the University on the fauna of Patagonia. The additions to the Department of Ornithology from this source alone aggregate some eight hundred bird skins.

The collections are further supplemented by some four thousand sets of eggs, most of them in nests, as well as much alcoholic material and many skeletons.

The department received in exchange during the year 1900 from the British Museum of Natural History some two thousand birds. These represent parts of the avifauna of Europe, India, and Asia, and aid materially in rounding out the existing collections. Many minor gifts have been received from alumni, particularly representatives of game birds from many localities in North America.

All this material affords facilities for special study in factors and problems, such as individual variation, geographical distribution and variation problems, migration and the like. Graduate students will find special facilities for work in the laboratories connected with this department.

The Museum of Historic Art

The upper story of the Museum contains a library of books and photographs of classical and mediæval archæology, collections to illustrate the history and processes of the graphic arts, reproductions of Greek and Roman coins and gems, specimens of Greek and Roman marble,

a collection of bronze medals and casts of ivories from the Roman to the Gothic period, a series of casts from the Arch of Trajan at Beneventum, and a small collection of paintings. The architectural library of the late Frederick Barnard White has recently been added.

In the central story the Trumbull-Prime collection has been rearranged and new cases have been added. The purpose of this collection is to illustrate the history of pottery and porcelain. Egypt is represented by sepulchral figurines, beads and amulets; Phœnicia by numerous Cypriote vases; Greece, Etruria, and Southern Italy by Corinthian aryballoi and fine examples of larger vases of black-figured and red-figured types. The Orient is further illustrated by specimens from Persia, China and Japan; South America by Peruvian pottery. The collection is richest in examples of European wares, to which England, France, Germany, and Holland are the chief contributors, but Italy, Russia, Sweden, and Switzerland are also represented. The small room on this story contains the Livingston loan collection of pottery. This collection is noteworthy for the illustrative material it furnishes for the early history of our country.

The staircase and basement are occupied by a carefully selected collection of casts of ancient and mediæval sculpture, presented by the Class of 1881 at its decennial. This collection was formed to illustrate the history of ancient sculpture in Egypt, Babylon and Assyria, Persia, Greece and Rome, and of mediæval sculpture in Italy, France, and Germany. There has been recently added from the same fund a collection of casts of renaissance sculpture.

The Museum is open to visitors from 8 A.M. to 6 P.M.

The Morphological Museum

The Morphological Museum, founded in 1897, is located in the Class of 1877 Biological Laboratory. At present

the Museum contains one thousand seven hundred first-class preparations, illustrating the comparative anatomy of vertebrates. The collection, which consists mostly of dissections and corrosions, is constantly being added to at the rate of about three hundred specimens a year, all of which are prepared in the laboratory by the Curator and his assistants.

LABORATORIES AND APPARATUS

Psychological Laboratory

The laboratory for experimental psychology was founded and equipped for work at the beginning of the academic year 1893–94. It occupies a suite of rooms on the third floor of the west wing of Nassau Hall, on the south side, opposite the histological laboratory. It comprises five rooms, *i.e.*, a dark-room, three rooms for research work, and a room fitted up for demonstrations and lectures. The equipment consists primarily of the standard pieces of apparatus for demonstrations and research, together with illustrative models and charts, and is added to as the development of the department in special directions makes it necessary. Professor Allan Marquand has presented to the laboratory both models of his well-known "logical machine" and a number of volumes. A select library of reference books and bound psychological periodicals is connected with the laboratory. Attention may be called to the very complete list of current journals in psychology, philosophy, and neurology, which are on file in this library. Researches from the laboratory are published in the *Princeton Contributions to Psychology*, now in the fourth volume.

Physical Laboratory and Apparatus

The physical laboratory is fitted up with tables and other arrangements to accommodate about fifty students at once. The classes usually work in small divisions, to facilitate the arrangement of the course in logical order and to avoid interference with the hours allotted to other courses.

The collection of apparatus for lecture demonstrations is a very good one, but as far as practicable the equipment consists of instruments which are serviceable not only in the lecture courses, but in the practical laboratory work. The collection contains most of the standards and instruments of precision that are needed by the advanced student or investigator. The shop connected with the School of Science is at the service of the department of physics, and apparatus needed for special researches may be constructed there.

Buildings and Apparatus of the Department of Electrical Engineering

The magnetic observatory is a brick building without iron in its construction, situated on McCosh Walk, in a position in which it is, as far as possible, free from the disturbing influences of large masses of iron.

The laboratory is in the basement, where permanent piers, for the installation of instruments, are provided.

Among the instruments in the laboratory which deserve mention are a large physical balance, Thomson's quadrant and other forms of electrometers, specially constructed galvanometers by Edelmann, Hartmann, Nalder Brothers and Elliott, Thomson's current balances, two large resistance boxes adjusted by Anthony, Post-office boxes, megohm box standard condenser, standards of induction and of resistance. Besides these there is a full outfit of galvanometers, voltmeters, ammeters, and all other instruments needed in technical work or in exact investigation.

The dynamo building is connected with the School of Science building. The motive power for the machinery is furnished by a sixty horse-power boiler and a Ball engine. The dynamo plant consists of a Westinghouse alternate generator with a full set of transformers, a Westinghouse polyphase generator, a Westinghouse rotary converter,

Mather, Edison, Brush arc, Eickemeyer and Gramme generators, a machine constructed in the shop of the School of Science, Brush, Eickemeyer and other motors. With these machines is a complete outfit of accessories, and a large rheostat of German silver used in testing. Arc and incandescent lamps are so arranged that the various systems of distribution may be studied.

The dynamo building is connected with the magnetic observatory by heavy copper wires, and by underground cables, so that the instruments of the magnetic observatory are available for experimental work with the dynamos. Four sets of storage batteries are also connected with the plant.

In addition to the above-described equipment, the plant of the University Power Company for heating and lighting the University buildings, is available for purposes of experimental study in which the quantities to be measured are of the order of those met with in commercial applications. Their plant contains four 250 horse-power boilers, for power and steam heating; two 200 K. W. and one 100 K. W. direct connected alternate current generators; one motor-driven exciter and steam turbine-driven exciter; the station switch-board and a special experimental switch-board. This last is entirely under the control of the Department of Electrical Engineering. The entire equipment of generators, transformers, motors, etc., is available for the use of the Department.

Chemical Laboratories

All the courses in chemistry and in mineralogy are conducted in the chemical building, which is of fireproof construction, well lighted and ventilated.

The top floor of the building is mainly devoted to laboratories for students in the various courses of general, analytical, physical, and organic chemistry, with private

laboratories, weighing room, and storerooms. Each student has a separate desk, provided with water, gas, suction for filter-pump, and sink.

On the second floor are two large lecture-rooms, cabinets for specimens and lecture apparatus, and several private laboratories.

In the basement, in addition to storerooms and several private laboratories, are a mineral cabinet; a furnace room; and laboratories for blowpipe analysis, for assaying, and for research work in physical chemistry.

Mineralogical Collections of the School of Science

There are two cabinets of minerals. The principal one contains over five thousand specimens, embracing nearly every mineral species. Smaller cabinets, with labeled and unlabeled minerals, are provided for practice with the classes.

There is also a collection of specimens of typical rocks, together with a large number of Fuess's rock sections, as well as sections from other sources, for the study of lithology.

The department is provided also with section cutters, grinding lathes, and other appliances for the special study of minerals and rocks; including a complete Groth's polarizing apparatus with goniometer, a large Babinet goniometer, Norremberg's polarizing apparatus, Rosenbusch's microscope, and minor apparatus.

Histological Laboratory

This laboratory is situated on the upper floor of the west wing of Nassau Hall. The western room serves as a lecture hall. On the north side of this room there are fourteen tables. There are lockers for forty-two students.

Materials for class work and specimens are prepared in

the assistant's room. Here, also, is kept a complete supply of chemicals, stains, and mixed reagents. The laboratory is supplied with the following apparatus: three paraffin baths, three microtomes, a centrifuge, an air pump, aquaria and cages for keeping living material, and a full assortment of glassware.

East of the assistant's room is the instructor's room, where the collections are kept. These consist of a large general collection of slides, the class collections from which the specimens for each exercise are drawn, and the collection of recent material from the main groups of the animal and vegetable kingdoms.

East of this room are two rooms for advanced students and Fellows engaged in research work.

The laboratory is provided with Zeiss, Leitz, and Reichart microscopes, and a Zeiss projective apparatus.

Class of 1877 Biological Laboratory

This building, situated at the east end of Dickinson Hall, was presented to the University by the Class of 1877 at its decennial reunion. It is designed for the advanced practical and experimental courses in comparative anatomy and embryology. The main morphological laboratory, upon the second floor, is equipped for the instruction of undergraduates. This room has been fitted up with exhibition cases which, at present, contain about six hundred mounted preparations illustrating the comparative anatomy of vertebrates. New preparations are constantly being added to the collection through the efforts of a skillful preparator.

The first floor comprises the embryological laboratory, intended for the use of University students engaged in research. The basement is designed for aquaria. The laboratory is open to students during the day from 8 A.M. to 5 P.M.

Paleontological Laboratory

This laboratory has been fitted up in Nassau Hall to provide for practical instruction in the courses in paleontology. Each student has a table with drawers, etc., for his own use, where the study of fossil forms can be conveniently carried on. The very extensive collections of the geological museum furnish ample material for the general course in paleontology and stratigraphy, as well as for the purposes of research. A series of diagrams, maps, and models is provided, as are also microscopes and prepared slides for the examination of the minute structure of various extinct forms, both animal and vegetable.

For advanced students engaged in original investigations, there are private rooms available.

Civil Engineering Laboratory and Apparatus

During the past year the facilities for instructing students in laboratory work in civil engineering have been greatly enlarged by the provision and equipment, through the generosity of the trustees of the John C. Green estate, of a separate building to be devoted entirely to the laboratory work of the Department of Civil Engineering. The building covers an area of about 7,000 square feet and is divided into five commodious rooms, in which the students will be taught, in connection with and supplementing the corresponding theoretical studies, to make tests of structural forms and materials; to conduct trials of steam, gas, and other motors; to deduce from actual experiment laws and coefficients of flow through various kinds of orifices, weirs, and conduits; and to make reliable tests of cements, mortars, and concretes.

The additional apparatus has been carefully chosen with a view to its value as a means of cultivating the perceptive faculties of the student, of stimulating originality of thought, and of making clear many points in the later

studies of the course which otherwise might remain ill-defined because imperfectly conceived. But its selection has also been influenced by the expectation that some of it will be employed in original investigation along lines of engineering knowledge as yet only partially developed.

There have been added to the previous laboratory equipment of the Department four new electrically driven testing machines, of different capacities, with all necessary accessories, the largest having a capacity of 200,000 pounds; a steam boiler of about seventy horse-power to furnish power and the means of conducting evaporative tests; a steam engine of fifty horse-power, provided with a dynamometer, and all other appliances for testing power and efficiency; and an Otto gas engine of about six horse-power. The cement room is now provided with three standard cement testers, made by different makers of established reputation, and is amply equipped with other paraphernalia of a cement testing establishment. The outfit of the hydraulic room is very complete in provisions for the control of pressures and volumes, and is unique in its use of large quantities of water in a very economic manner.

The illustrative apparatus of the Department covers a wide field, and comprises rail sections and joints, specimens of the products of iron and steel mills and of other building materials, models of water wheels, of trestles, of the details of joints of steel bridges and roofs, and of vaults and arches. A collection of lantern slides, especially selected for use in the classroom, has been provided, and includes a large number of views, in detail, of the New York and Brooklyn Roebling suspension bridge at different stages of its erection, as well as similar views of other structures. A 25-foot iron working model of a single-track railway bridge, with a complete outfit of falsework and other appliances for its erection, designed especially for this

Institution, is employed to illustrate by actual trial the modes of procedure in problems of erection.

The instruments provided for the course in geodesy represent the work of several instrument makers of high repute They include a 12-inch geodetic transit; a large planetable with telescopic alidade and a telemeter; engineer's, mining, and solar transits; wye and dumpy levels; surveyor's compasses; mercurial and aneroid barometers; sextants; heliotropes; numerous forms of standard linear measures; and a large assortment of reconnoitering instruments.

ATHLETIC GROUNDS AND BUILDINGS

The University Field

This field, which is large enough for two football games to be played simultaneously, is the scene of all University athletic contests and games held in Princeton. The entrance gateway is the gift of Mr. Ferris S. Thompson, of the class of '88. Besides the baseball ground and football field, there are a 220-yard straightaway and a quarter-mile cinder track and the following buildings: (1) The University Athletic Clubhouse, the gift of Prof. Henry F. Osborn, class of 1877, containing training quarters, dining-room, parlor, bedrooms, baths, etc., and a trophy room, which is open to visitors. (2) The Cage for indoor winter practice, a well-lighted brick structure with a clear floor space of 60 x 140 feet. (3) The Field House, containing dressing-rooms, lockers, and baths for the University and visiting teams. (4) The Grand Stand, the gift of Mrs. John J. McCook, of New York. The clock in the peak of the roof is the gift of the Glee Club of 1890. (5) The Open Stands, the result of alumni subscriptions.

The Brokaw Field

This field was provided by the alumni for the benefit of undergraduates who are not members of the University teams. On a terrace are the University Tennis Courts, and above them is the Brokaw Memorial Gateway and Building, erected in 1892 by Mr. I. V. Brokaw, of New York, in memory of his son, Frederick Brokaw, of the Class of 1892, who lost his life at Elberon, N. J., in 1891, while attempting to rescue a drowning girl. The building contains dressing-

rooms, shower-baths, and lockers for several hundred men. A wing contains a porcelain swimming pool 100 feet long by 25 feet wide.

Class of 1886 Memorial Building

This building, recently presented to the University by the Class of 1886, overlooks the Princeton golf course and commands an extensive view of the adjacent country.

The building contains ample provision in the way of bath and locker rooms, reception rooms, etc., designed for the use of members of the Princeton Golf Club, with dormitory and kitchen facilities, to be devoted to the use of the members of the Class of 1886.

The Princeton Golf Club

Students of the University are eligible to membership in the Princeton Golf Club, whose new eighteen-hole golf course covers 225 acres and is situated on University property.

PART VIII

EXPENSES, ALLOTMENT OF ROOMS, UNIVERSITY BILLS, PRIZES, SCHOLARSHIPS, REMISSION OF TUITION, AND CHARITABLE FUNDS

EXPENSES

Board, 36 weeks ..... $3.00 to $8.00 per week.
Washing, 36 weeks ..... 60 cents per week.
Tuition and Public Room fee, Academic ..... $150.00 per annum.
Tuition and Public Room fee, School of Science ..... $160.00 per annum.
Tuition, extra for each chemical course involving laboratory work, if taken by an Academic student ..... $10.00 per term.
Room rent (according to location of room) ..... $18.00 to $175.00 per annum
Heat, fixed charge (according to location of room) ..... $10.00 to $28.00 per annum.
Light, fixed charge (according to location of room) ..... $12.00 to $28.00 per annum.
Infirmary fee ..... $7.00 per annum.
Gymnasium and Swimming Pool fee ..... $7.00 per annum.
Examination fee, payable at time of taking entrance examinations (see p. 69) $5.00
Graduation fee, payable second term, Senior year $12.00

For other special courses than that in Analytical Chemistry arrangements may be made upon consultation with the professor in charge.

Apparatus Deposits.—Students pursuing certain courses in the School of Science are required to make deposits to pay for apparatus injured or destroyed. At the end of the term any excess in favor of the student is placed to his credit on the bill for the next term. The deposits in the courses are: Chemistry—Sophomores and Juniors, $10; Seniors, $15. In Geodesy—Freshmen, second term, $10; Sophomores, second term, $15; Juniors, both terms, $10; Seniors, first term, $5.

Students taking any of the courses in Graphics will require a drafting outfit costing from $18 to $25.

ESTIMATE OF ANNUAL EXPENSES

Academic Department

Minimum, medium, and maximum estimates of the necessary expenses for one year of a student occupying an unfurnished room in a dormitory have been prepared as follows:

	Min.	*Medium*	*Max.*
Board, 36 weeks, at $3.00 to $8.00	$108.00	$180.00	$288.00
Washing, 36 weeks at 60 cents per week.	21.60	21.60	21.60
Tuition and Public Room fees	150.00	150.00	150.00
Infirmary fee	7.00	7.00	7.00
Gymnasium and Swimming Pool fee ...	7.00	7.00	7.00
Room rent	18.00	60.00	175.00
Heat (per room).....	10.00	19.00	28.00
Light (per room).....	12.00	20.00	28.00

Books, clothes, furnishings for rooms, incidentals, and travelling and vacation expenses have not been included in these estimates.

RULES GOVERNING THE ALLOTMENT AND RENTAL OF ROOMS

(DECEMBER, 1901)

1. Rooms shall be assigned for occupation during the following academic year between the 15th of May and the 1st of June of each year.

2. This assignment shall embrace:

a. All rooms occupied by students whose connection with the University will terminate at the end of the academic year.

b. The rooms of all Seniors, whether with room-mate or not (unless the room may be retained by a graduate or for a brother, as elsewhere provided in the rules).

c. All rooms for which the lease has not been properly renewed.

3. An allotment may also take place at the close of the first term of each academic year for the purpose of assigning such rooms as may then fall vacant.

4*a*. The assignment of rooms shall in all cases not herein specially excepted take place in such a manner that specific rooms shall be assigned by lot.

b. The rooms to be assigned shall be classified according to the amount of their rental in seven groups as follows:

(1) The first group shall embrace rooms whose rental is from $18 to $36 inclusive.

(2) The second group shall embrace rooms whose rental is from $40 to $66 inclusive.

(3) The third group shall embrace rooms whose rental is from $70 to $100 inclusive.

(4) The fourth group shall embrace rooms whose rental is from $105 to $140 inclusive.

(5) The fifth group shall embrace rooms whose rental is from $150 to $180 inclusive.

(6) The sixth group shall embrace rooms whose rental is from $200 to $240 inclusive.

(7) The seventh group shall embrace rooms whose rental is from $250 to $300 inclusive.

c. The applicants for rooms shall be divided into corresponding groups, each applicant being required to inform the Treasurer in writing before the 10th of May, or the 20th of January, as the case may be, both of his intention to enter the drawing and of the group in which he wishes to be placed.

Every applicant for a room shall agree beforehand, and shall be required, to take the room which may be assigned to him by lot in the group in which he has made application.

d. Each drawing shall begin with the first group and proceed from that group through the other groups successively in the order given above. Any applicant who does not obtain a room in the group to which he first asked to be assigned, may be allowed to draw in any higher group.

e. If there be any rooms remaining unassigned after a drawing, such rooms may be assigned by subsequent allotment, at such time before the end of the year or of the term as the Treasurer may appoint; such supplementary allotment to be made under the same rules as the principal allotment, with this exception, that the rooms disposed of by means of it may be classified as above or not, at the discretion of the Treasurer.

f (*a*). Priority in the drawing shall be determined by the length of time the applicants have been members of the University. The first drawing shall include the names of all applicants who have been members of the University for more than one year. A second drawing shall include the

names of all applicants who have been members of the University one year or less.

f. (*b*) If the application for a double room shall be signed by students who have been members of the University different lengths of time, it shall be classified, and placed in the drawing in which the student who has been a member of the University the shortest length of time would be placed.

g. New students shall have choice of any rooms remaining vacant at the time of their entering upon residence, in the order of their application after undergoing the entrance examinations for full standing, upon condition of immediately signing the lease required in all cases. [See Rule 5*a*.]

h. Double rooms shall be separately classified and allotted in accordance with the above regulations. Only such suites as consist of a study and two bedrooms shall be considered double rooms within the meaning of this clause. No double room shall be assigned to a single individual, nor shall it be within the privilege of any single individual to draw for a double room. Every application for a double room must give the names of two persons who intend to occupy the room together and who undertake to be jointly responsible for the rent of the same.

i. Whenever for any reason one of the occupants of a double room is permitted or obliged to cancel his room lease, the remaining occupant must vacate the room at the end of the current academic term, unless he agrees to pay the whole rent, or provide a room-mate who shall join him in signing a new lease for the remainder of the academic year.

5*a*. The tenure and liabilities of those to whom rooms are assigned under these rules shall be the tenure and liabilities expressed in the following lease, which must be signed in the case of each room allotted by the student who

is to occupy it, and by his parent or guardian. This lease must be signed and delivered to the Treasurer in each case within ten days of the allotment, except in the case of new students, provided for under Rule 4*g*.

This agreement, made the day of , 190 , between the Trustees of Princeton University and of , witnesseth, that the said Trustees of Princeton University do hereby lease unto the said Room No. in the Entry of , to hold for the academic year of , paying therefor during the said term unto the said Trustees of Princeton University the yearly rent of $ in two equal payments, to be made the one within the first four weeks of the first term of the academic year, the other within the first four weeks of the second term of the academic year.

And the said covenants to pay the said rent in the manner and at the times aforesaid, and to deliver up the said premises to the said Trustees of Princeton University or its legal representative at the end of said term in as good condition as the same now are or may be put into by the said Trustees of Princeton University, reasonable use and wear and tear thereof, and fire and other casualty excepted. The said lessee also covenants that he will not do or suffer to be done any damage in the leased premises, and that, if any damage beyond reasonable wear and tear be done, he will cause the same to be made good as soon as possible at his own expense, employing for that purpose the proper University workmen, and paying the cost thereof at once to the University Treasurer, it being understood that the damage here meant includes the breakage of glass and locks, whether by accident or design. The said lessee further covenants that he will not sublet the same or any part thereof, nor permit any other person or persons to occupy the same or any part thereof, nor make nor suffer to be made any alteration therein without the consent of the

said Trustees of Princeton University for that purpose in writing first had and obtained. And the said lessee further covenants that the said Trustees of Princeton University through their authorized representative may enter the said premises for the purpose of viewing or making improvements therein at any reasonable times in the daytime, or at any other time for the legitimate purposes of University discipline. This lease is made on the express condition that it may be terminated by said Trustees through their representative.

b. Any occupant of a college room may retain his room until the end of his undergraduate or graduate course, provided he annually notify the Treasurer of his intention of retaining it and sign a new lease before the 1st of May, otherwise his room shall be considered vacant and shall be included in the next allotment. In case an occupant of a double room be left without a room-mate at the end of the academic year, he may renew his lease upon condition of naming another student of the University who will become joint lessee with him for the following year, unless the room-mate who leaves is a Senior or a fourth year special. It shall also be the privilege of any occupant of a college room to renew his lease at the end of his own tenure in the name of his brother, when that brother is to enter the University immediately.

c. The right to occupy a room is not transferable and terminates with the expiration of the lease. Any attempt on the part of the occupant of a college room to sell or transfer, directly or indirectly, his right of occupancy shall be deemed a fraudulent transaction. The penalty for violating this rule shall be forfeiture of the rooms by the new lessee.

d. The occupant of a college room shall deposit with the Curator the sum of 25 cents for each key to his room that may be furnished him by the University; and all

amounts paid under this clause shall be refunded upon return of the key or keys furnished.

6. The Committee on Grounds and Buildings shall engage a competent appraiser, not otherwise connected with the University, to determine the value of all beds (bedsteads, mattresses, and springs), chairs, tables, couches (including window seats and divans), washstands, crockery, bureaus, desks, carpets and book-cases for sale in a room to be vacated. His decision shall be final in every appraisal. Under the general direction of the Treasurer, it shall be the duty of the appraiser to estimate separately the value of each of the above articles so offered for sale and to deposit with the Treasurer a complete list for each room of the articles appraised, with their several values affixed. The owner shall not be permitted, under any pretext, to sell to his successor any article for more than the appraised valuation. If he does not wish to sell at so low a price, then he must remove his property from the room. If his successor does not wish to purchase at appraised valuation, he may order that the property be removed from the room. All payments for appraised furniture in a room vacated or transferred must be made through the Treasurer's office, but nothing in the rules shall be construed to create a liability on the part of the University for damaged or missing articles. *All articles not in the above list* must be removed from the room within two weeks after such room is vacated.

7. No exchange of rooms shall be allowed unless formally sanctioned in writing by the Treasurer; and then only upon terms explicitly stated in a written application signed by both parties to the proposed exchange, and not in contravention of the spirit of these rules. Such applications shall be kept on file in the Treasurer's office.

8. When rooms are vacated during a term the rent shall be paid until the end of the term. An occupant of a

college room who expects to be absent on leave for a term may be released from the obligations of his lease, provided he notify the Treasurer before the beginning of the term during which he expects to be absent, and give up the room; but no abatement or drawback of room rent shall be allowed for any period less than a term, except in special cases to be stated in writing, and by permission of the Treasurer.

9. The Faculty of the University is directed to suspend or expel every student that may be found guilty of breaking or evading these rules or of injuring or interfering with the person or property of his successor in a room; or of aiding or abetting another in such transgression, evasion, injury, or interference. The Faculty and all its officers are instructed to take the utmost pains, by ordinary or extraordinary means, to discover such offenders and prevent such offences.

The Faculty is further instructed to report, with the evidence discovered, the name of any graduate or outsider that may be guilty of such offences to the Committee on Grounds and Buildings; and said Committee is authorized and directed to procure legal counsel and when the evidence seems to justify it to take appropriate legal proceedings against any and every offender before a court of law.

UNIVERSITY BILLS

All University expenses, including board, must be paid in advance to the Treasurer of the University.

Students are required to call at the Treasurer's office in the course of the first ten days of each term, and to give information as to their place of boarding, etc., so that their bills can be made out. All bills must be paid within the first four weeks of the term. Failure to comply with this rule will deprive the student of the privileges of the University until payment is made, unless excused by special vote of the Faculty.

When a student enters the University before the middle of the term, he shall pay in full the usual charges for that term, with the exception of the charges for board; if he enter after the middle of the term, he shall pay one-half. For board he shall pay in proportion to the time.

When a student leaves the University, whether voluntarily or by dismissal, before the middle of any term, one-half of the charges for tuition and public rooms for that term shall be refunded. But in the case of temporary absence and subsequent return, although the absence be for more than half a term, no such rebate shall be granted.

When a student is dismissed from the University for any cause, the advance deposit for board, heat, and light, beyond the time of dismissal, shall be refunded to his parent or guardian.

When at the end of the first term the amount of the advance deposit proves to be in excess of the sum required to defray the board or room bills of any student, the excess shall be credited on his bill for the next term. At the end

of the academic year the amounts overpaid by the members of the *graduating class* for board, room rent, heat, and light shall be refunded by the Treasurer to the student's parent or guardian. The parent or guardian of *every undergraduate* will be advised of the amount of excess to the credit of his son or ward, and such amount will be *carried over to his credit on the bill of the first term of the following year.* In case of withdrawal or dismissal from the University of any undergraduate at the end of the college year, such excess will be refunded by the Treasurer to the parent or guardian, when informed by the Clerk of the Faculty that such undergraduate has been withdrawn of dismissed from the University.

PRIZES

Alexander Guthrie McCosh Prize

The interest of $1,500 will be given annually to that member of the Senior class who shall write the best essay in philosophy, including psychology, logic, metaphysics, and the history of philosophy. The subject of the essay for the present year will be, Heredity. It must be handed in on or before June 1.

Lynde Debate Prizes

Three prizes—the income of $5,000, contributed by Charles R. Lynde, Esq.—will be awarded by a committee, appointed by the Faculty, to the three successful competitors in a debate on the Tuesday evening preceding Commencement. The competitors are six members of the Senior class—representatives of the Literary Societies—selected by committees appointed by the Societies respectively from their own members in the Faculty.

Baird Prizes

Through the liberality of Charles O. Baird, Esq., the following prizes, representing the income of $6,000, will be given to those who excel in the oratorical exercises of the Senior class, viz.: The Baird Prize of $100 to the best speaker of those who have ranked among the first six writers in any two of the three departments of English literature, rhetoric, and oratory; a prize for oratory of $50 to the best speaker, exclusive of the Baird Prizeman, of those who, in the same departments, have ranked among the first twelve writers; a prize for delivery of $30 to the

best speaker exclusive of the two just mentioned; also, a prize for poetry of $50; and two prizes of $40 and $30, respectively, for the best and second best written disputations.

Class of 1859 Prize

The interest of $2,000, given by the Class of 1859, will be awarded to that member of the Senior class who shall write the best essay on John Ruskin, and pass the best examination on Hamlet. The essay must be handed in on or before June 1, and the examination will be held in June. The subject of the essay for the Class of 1907 will be Percy Bysshe Shelley.

George Potts Bible Prizes

The yearly interest of $1,000, given in 1867 by Mrs. Sarah A. Brown, expended in the purchase of two copies of Matthew Henry's Commentary on the Bible, will be presented to the best two Biblical scholars of the Senior class at the end of their course.

Lyman H. Atwater Prize in Political Science

This prize, being the annual interest on the sum of $1,000, contributed by the Class of 1883, was instituted as a memorial of the Rev. Lyman H. Atwater, D.D., LL.D., Professor of Political Science. It will be given to that member of the Senior class who shall have passed the best examination and written the best thesis on some subject in political science, to be assigned by the professors in charge of the Department of Jurisprudence and Politics.

The thesis must be ready June 1; the examination will be held on that day.

Frederick Barnard White Prize in Architecture

The late Mrs. Norman White established in memory of her son, Frederick Barnard White, of the class of 1883, a

prize in architecture, yielding $50. The prize is open to the entire Junior and Senior classes and to special students who take a full schedule of studies. The subject of the essay for this year is, Polychromatic Decoration in Greek Architecture. The subject of the examination is, Oriental Influence upon European Romanesque Architecture. The essay should be presented before June 1st.

Theodore Cuyler Prize in Economics

The interest of $5,000, presented by Mr. C. C. Cuyler, of the class of 1879, will be given to that member of the Senior class who shall present the best thesis and pass the best examination in June on some subject in political economy, to be assigned by the professors in charge of that department. The subject for the thesis of 1906 will be, The Taxation of Business Corporations, and the examination will cover the Theory of Public Finance.

Class of 1869 Prize in Ethics

The annual interest of $3,000, given by the Class of 1869, will be awarded to that member of the Senior class who shall pass the best examination in ethics and write the best essay. The essay to be presented on or before June 1. The subject of the essay for the Class of 1906 will be, The Relation of Ethics to Metaphysics.

C. O. Joline Prize in American Political History

The sum of $50 will be awarded annually at Commencement to that member of the graduating class who shall have maintained a creditable standing in the subject of American history, and who shall have submitted the best written dissertation upon some subject of American history, assigned by the professor in charge of that department, and based in part at least, upon original investigation.

The dissertation must be at least 5,000 words in length

and must be accompanied by a bibliography of the subject. Specific references to the sources used must be given throughout.

The prize shall be awarded by the professor or professors in charge of the department of American history.

New York Herald Prize

The yearly interest of $1,000, presented by Mr. James Gordon Bennett, will be given to that member of the Senior class, or to the special student of satisfactory standing, who shall have taken for both terms of Senior year at least two of the courses given by the Department of History, Politics, and Economics, and at least one course in English literature for both terms, and who shall have presented the best thesis in English prose upon some subject of contemporaneous interest in the domestic and foreign policy of the United States Government. The thesis must be ready by June 1.

Wood Legacy

The sum of $150, the income of a legacy of Dr. George B. Wood, will be awarded to that member of the Junior class who shall stand highest for the Junior year.

Junior Orator Medals and Maclean Prize

Four gold medals, or books of equal value, will be awarded by a committee, appointed by the Board of Trustees, to the four successful competitors in an oratorical contest during Commencement week. The competitors are eight members of the Junior class—four from the Cliosophic and four from the American Whig Societies—selected by committees appointed by the Societies respectively from their own members in the Faculty.

The Maclean Prize, founded by the will of the late Henry A. Stinnecke, consisting of the sum of $100, will be

given to that one of the orators chosen by the Literary Societies from the Junior class who shall during Commencement week pronounce the best English oration.

The committee of judges will be composed of a professor of English and two graduates of the University not members of the Faculty

Dickinson Prize

The Dickinson Prize, founded in 1782 by the Hon. John Dickinson, of New Jersey, Governor of Pennsylvania and Delaware, consisting of a medal of the value of $60 (or its equivalent in money), will be awarded to that member of the Junior class who shall write the best dissertation upon a theme in logic; the dissertation to be presented on or before June 1. The subject of the dissertation: The Theory of Judgment.

Class of 1876 Memorial Prize for Debate in Political Science

This prize is to be given annually by the Class of 1876 to the successful contestant in a debate on a subject of current interest in American politics, to be held on Washington's Birthday, said prize to be the interest of $2,000. The competitors, four in number, one from each class, are to be chosen by a vote of their respective classes.

Class of 1870 Junior English Prize

Of the yearly interest of $1,500, one-half will be given to the best Old English scholar, and one-half to the best English literature scholar of the Junior Academic class, electing the English Department.

Thomas B. Wanamaker English Language Prize

This prize, the yearly interest of $1,000, will be given to that member of the Junior Academic class, electing the

English Department, who shall pass the best examination in English philology, and write the best thesis on some assigned topic therein.

Mary Cunningham Humphreys Junior German Prizes

Two prizes, of $25 and $15 respectively, established by the late Professor Willard Humphreys in memory of his mother, Mary Cunningham Humphreys, will be awarded to those members of the Junior class who, having taken the regular German course for at least two years, shall, at the close of the second term, pass the best examination on the work of the term and on the life of the author whose works have been the principal subjects of the year's study.

Stinnecke Prize

The Stinnecke Foundation was established in 1870 by the will of the late Henry A. Stinnecke, of the class of 1861, and was supplemented by a bequest received in 1876 from his aunt, Miss Maria Stinnecke. The income is divided between the Stinnecke Scholarship of $500 and the Maclean Prize of $100.

The Stinnecke Scholarship, of the annual value of $500, tenable during the undergraduate course, unless forfeited by neglect of study, "will be given to that person who, having entered the Sophomore class, shall pass the best examination at the opening of the session in September, 1905, in the Odes of Horace, the Eclogues of Virgil, and the Latin Grammar and Prosody, as well as the Anabasis or Cyropædia of Xenophon and the Greek Grammar." Students of the University who have been members of the Freshman class, as well as new students entering the Sophomore class, will be admitted to such examination. The committee of examiners is appointed by the Board of Trustees.

Class of 1861 Prize

The interest of $1,200, given by the Class of 1861, will be awarded to the member of the Sophomore class who shall pass the best examination at the end of the year on Analytical Geometry and Calculus, viz.: Mathematics 21, 22.

Francis Biddle Sophomore Essay Prize

This prize, the yearly interest of $500, will be given to that member of the Sophomore class, not below the fourth group in his English studies, who, in the judgment of a committee appointed by the Faculty, shall write the best English essay of the year.

Class of 1870 Sophomore English Prize

This prize, the yearly interest of $1,000, will be given to that member of the Sophomore Academic class who shall pass the best examination on the English studies of the year.

Spencer Trask Debating Fund

The interest of $3,000, given by Mr. Spencer Trask, of New York City, is used to promote debating. At present one-third of the interest is awarded to the best debaters in the trials for the intercollegiate debate with Yale; one-third to the best debater in the trials for the intercollegiate debate with Harvard; and one-third for general debating expenses.

Class of 1883 Prizes for English in the School of Science

Class of 1883 English Prize for Juniors in B. S. and Litt. B. Courses.—This prize, the annual interest of $1,000, will be given to that member of the Junior class, a candidate for the degree of B.S. or Litt.B., electing both courses in the English Department, who shall have passed the best

examination in English philology and submitted the best essay on a subject in English literature assigned by the English Department.

Class of 1883 English Prize for Freshmen in Civil Engineering Course.—This prize, the annual interest of $1,000, will be given to that member of the Freshman class in the civil engineering course who shall have done the best work in the English studies of the Freshman year and shall have submitted the best essay on a subject assigned by the English Department.

PHILO SHERMAN BENNETT PRIZE IN POLITICAL SCIENCE

The interest on the sum of four hundred dollars, the gift of the late Philo Sherman Bennett, of New Haven, Connecticut, to be bestowed on that member of the Senior or Junior class of the University who shall write the best essay discussing the principles of free government. The essay must be in the hands of the Professor of Politics by the first of June, 1906. The subject of the essay for 1906 is The Principle of Freedom in a Constitutional Government.

SCHOLARSHIPS

ENDOWED SCHOLARSHIPS

The first scholarships were established in 1854. Between that time and 1903 one hundred and twelve scholarships, amounting to $114,500, were founded. The income from these, with the exception of the ELIZABETH VAN CLEVE Scholarship, is for the benefit of candidates for the degree of Bachelor of Arts.

SCHOLARSHIPS FOUNDED BETWEEN 1854 AND 1903

1–3.	The COLT Scholarships, founded by Roswell Colt, Esq., of Paterson, N. J.,	$3000
4.	The NEWKIRK Scholarship, founded by Matthew Newkirk, Esq., of Philadelphia,	1000
5.	The JOHN JOSEPH RANKIN Memorial Scholarship, founded by his father, William Rankin, Esq., of Newark, N. J.,	1000
6.	The CRESSWELL Scholarship, founded by A. Cresswell, Esq., of Kishacoquillas, Pa.,	1000
7.	The ISAAC N. RANKIN Scholarship, founded by Isaac N. Rankin, Esq., of Newark, N. J.,	1000
8.	The MUSGRAVE Scholarship, founded by Rev. George W. Musgrave, D.D.,	1000
9.	The COGSWELL Scholarship, founded by Rev. Jonathan Cogswell, D.D.,	1000
10.	The GREEN Scholarship, founded by Hon. Henry W. Green, LL.D.,	1000
11–15.	The LENOX Scholarships, founded by James Lenox, Esq., of New York,	5000

16. The HODGE Scholarship, founded by Dr. Hugh L. Hodge, of Philadelphia, 1000
17. The A. B. BAYLIS Scholarship, founded by A. B. Baylis, Esq., of Brooklyn, 1000
18. The HENRY J. VAN DYKE Scholarship, founded by Geo. L. Sampson, Esq., of Brooklyn, 1000
19. The GREGORY Scholarship, founded by Dudley S. Gregory, Esq., of Jersey City, 1000
20. The FIRST PRESBYTERIAN CHURCH OF PEEKSKILL Scholarship, founded by members of the Church, 1000
21. The VAN VORST Scholarship, founded by Hon. John Van Vorst, of Jersey City, 1000
22. The JANEWAY Scholarship, founded by Rev. Jacob J. Janeway, D.D., 1000
23. The PRESBYTERIAN CHURCH OF HUNTINGTON, L. I., Scholarship, founded by the ladies of the Church, 1000
24. The BACKUS Scholarship, founded by E. F. Backus, Esq., of Philadelphia, 1000
25. The VAN SINDEREN Memorial Scholarship, founded by Mrs. and Miss Van Sinderen, of Brooklyn, 1000
26. The NORRIS HALSTEAD Scholarship, founded by Gen. N. Norris Halstead, of Newark, N. J., 1000
27. The MACLEAN Scholarship, founded by Drs. John and George M. Maclean, 1000
28. The HAINES Scholarship, founded by Richard T. Haines, Esq., of Elizabeth, N. J., 1000
29. The JACKSON Scholarship, founded by Hon. John P. Jackson, of Newark, N. J., 1000
30. The TUTTLE Scholarship, founded by Joseph N. Tuttle, Esq., of Newark, N. J., 1000
31. The GERTRUDE N. WOODHULL Memorial Scholarship, founded by her son, Dr. John N. Woodhull, of Princeton, 1000

32. The NATHANIEL W. TOWNSEND Memorial Scholarship, founded by his daughter, Mrs. Daniel Haines, 1000
33. The FIRST PRESBYTERIAN CHURCH OF BRIDGETON Scholarship, founded by members of the Church, 1000
34. The SKIDMORE Scholarship, founded by Joseph R. Skidmore, Esq., of New York, 1000
35. The SPENCER Scholarship, founded by I. S. Spencer, Esq., 1000
36. The JEREMIAH D. LALOR Memorial Scholarship, founded by a friend, 1000
37. The MARQUAND SCHOLARSHIP, founded by Frederick Marquand, Esq., of Southport, Conn., 1000
38. The FIRST PRESBYTERIAN CHURCH OF TRENTON Scholarship, founded by members of the Church, 1000
39. The CAMERON Scholarship, founded by Hons. Simon and Donald Cameron, 1000
40. The SECOND PRESBYTERIAN CHURCH OF ELIZABETH Scholarship, founded by members of the Church, 1000
41. The C. S. BAYLIS Scholarship, founded by Charles S. Baylis, Esq., of Brooklyn, 1000
42. The ELIZA MUSGRAVE GIGER Memorial Scholarship, founded by her son, Prof. George M. Giger, D.D., 1000
43. The BLAIR Scholarship, founded by James Blair, Esq., of Scranton, Pa., 1000
44. The PENNINGTON Scholarship, founded by Dr. Samuel H. Pennington, of Newark, N. J., 1000
45. The FENTON Scholarship, founded by Aaron Fenton, Esq., 1000
46. The TRASK Scholarship, founded by Alanson Trask, Esq., of Brooklyn, 1000
47. The WITHINGTON Scholarship, founded by Chandler Withington, Esq., of Kingston, N. J., 1000

48. The NEWARK Scholarship,
founded by the will of Henry Rogers, Esq., of Newark, N. J., 1000
49. The CARTER Scholarship,
founded by Aaron Carter, Esq., of Newark, N. J., 1000
50–54. The HOLMES Scholarships,
founded by Capt. Silas Holmes, of New York, 5000
55. The COLWELL Scholarship,
founded by Stephen Colwell, Esq., of Philadelphia, 1000
56. The AITKEN Scholarship,
founded by John Aitken, Esq., of New York, 1000
57. The BULLARD Scholarship,
founded by Mrs. P. Bullard, 1000
58. The NEHEMIAH PERRY Scholarship,
founded by the Hon. Nehemiah Perry, of Newark, N. J., 1000
59. The CHARLES DICKINSON HAMILL Memorial Scholarship, founded by his father, the Rev. Samuel M. Hamill, D.D., 1000
60. The CYRENIUS BEERS Memorial Scholarship,
founded by his daughter, Miss Julia Beers, 1000
61. The JACOBUS Scholarship,
founded by Peter Jacobus, Esq., of Newark, N. J., 1000
62. The MATTHEW B. HOPE Scholarship,
founded by the Trustees as an acknowledgment of the services of Prof. Hope in raising an endowment of over $100,000, 1000
63. The JOHN MACLEAN Scholarship,
founded by a friend of President Maclean, 1000
64. The WHITE Scholarship,
founded by William White, Esq., 1000
65. The ELIZABETH VAN CLEVE Scholarship,
founded by Hon. C. S. Green, of Trenton, N. J., 2000
66. The BLOOMFIELD Scholarship,
founded by Hon. Amzi Dodd, of Bloomfield, N. J., 1000
67. The FLAGLER Scholarship Fund,
the gift of Henry M. Flagler, Esq., of New York City, 1500

68. The JAMES McCOSH Scholarship, founded by friends of President McCosh in New York City, 1000

69–70. The WISTAR MORRIS WOOD and CHARLES MORRIS WOOD Scholarships, founded by their father, Rev. Charles Wood, D.D., of Germantown, Pa., 2000

71. The CLASS OF 1856 Scholarship, founded by members of the Class of 1856, 1000

72. The CLASS OF 1841 Scholarship, founded by members of the Class of 1841, 1000

73. The ALBERT DOD BROWN Memorial Scholarship, founded by his mother, Mrs. Susan D. Brown, of Princeton, N. J., 1000

74–83. The JONATHAN DICKINSON Scholarship,
The AARON BURR Scholarship,
The JONATHAN EDWARDS Scholarship,
The SAMUEL DAVIES Scholarship,
The SAMUEL FINLEY Scholarship,
The JOHN WITHERSPOON Scholarship,
The SAMUEL STANHOPE SMITH Scholarship,
The ASHBEL GREEN Scholarship,
The JAMES CARNAHAN Scholarship,
The FRANCIS L. PATTON Scholarship,
founded by Miss Rachel L. Kennedy, New York, 10,000

84–88. The KENNEDY Scholarships, founded by Miss Rachel L. Kennedy, New York, 5000

89. The A. O. HEADLEY Scholarship, founded by A. O. Headley, Esq., of Newark, N. J., 1000

90. The HARVEY LINDSLEY Memorial Scholarship, founded by Mrs. Emeline Coney Lindsley, 1000

91. The BUTLER Scholarship, founded by William Allen Butler, Jr., Esq, 1500

92. The BROKAW Scholarship, founded by Isaac V. Brokaw, Esq., of New York, 1000

93. The EZRA NYE Memorial Scholarship, founded by his son-in-law, F. Wolcott Jackson, Esq., of Newark, N. J., 1000

94. The GRACE NEWCOMBE DENNING Scholarship, founded by Mrs. William Moir, of New York, 1500
95. Founded by a friend, 1000
96–97. The McCORMICK Scholarships, founded by Mrs. McCormick, of Chicago, 2000
98. The WILLIAM CAMPBELL TRUESDELL Memorial Scholarship, founded by his father, Warren N. Truesdell, Esq., of Newark, N. J., 1000
99. The HENRY M. ALEXANDER Scholarship, founded by a friend, 1000
100. The JOHN C. D. MATTHEWS Memorial Scholarship, founded by his mother, Mrs. Mary R. Matthews, of Newark, N. J., 1000
101. The McCORD Scholarship, founded by J. D. McCord, Esq., of Philadelphia, 1000
102–106. The WALLACE Memorial Scholarships, founded in memory of William C. Wallace, of the class of '23, by his daughters, Mrs. Allen and Miss Wallace, of Newark, N. J., 5000
107. The ROBERT VOORHEES Scholarship, founded by Mrs. Susan V. Clark, 1000
108. The J. S. BONSALL Scholarship, founded by Mrs. Susan Bonsall, 1000
109. The LAURANCE FIELD STEVENS Memorial Scholarship, founded by his father, Herbert B. Stevens, Esq., of Greenwich, Conn., 1000
110. The RICHARDS Scholarship, founded by Harry E. Richards, M.D., of Bloomfield, N. J., 1000
111–112. The FINLEY and BREESE Scholarships, founded by a bequest of Samuel F. B. Morse, 2000

In 1903 the Trustees adopted the following rules for the endowment and administration of scholarships:

I. A scholarship in any undergraduate department of the University may be endowed by the payment to the Treasurer of the sum of twenty-five hundred dollars.

II. A scholarship shall entitle the incumbent to receive

remission of one hundred dollars per annum from the charge for tuition.

III. The right to nominate the incumbent of a scholarship shall rest with the donor, if an individual, during his or her lifetime, and if an institution or alumni association, for a period of twenty-five years. At the end of this period or at the death of the donor, the right of nomination shall revert to and rest with the Faculty of the University.

IV. All scholarships shall be held subject to such rules as may be adopted from time to time by the Faculty of the University.

Since the adoption of these rules the following scholarships have been founded:

113.	The MAHLON LONG Scholarship, founded by the Rev. George Wells Ely, of Columbia, Pa.,	$10,000
114.	The JOHN LINN PATTON Scholarship, founded by Mr. and Mrs. William A. Patton, of Philadelphia, in memory of their son, John Linn Patton, of the class of 1903,	2500
115.	The JOHN H. CONVERSE Scholarship, founded by John H. Converse, Esq., of Philadelphia,	2500
116.	The JOHN W. CONVERSE Scholarship, founded by John H. Converse, Esq., of Philadelphia,	2500
117.	The ROBERT STOCKTON PYNE Memorial Scholarship, founded by his mother, Mrs. M. Taylor Pyne, of Princeton,	2500
118.	The FREDERICK WOLCOTT JACKSON Scholarship, founded by Philip N. Jackson, Esq., of Newark, N. J.,	2500
119.	The ORANGE Scholarship, founded by the Princeton Alumni Association of the Oranges,	2500

It is customary to assign these scholarships, when they become vacant, to undergraduates who have been members

of the University for at least one year, and who are considered most worthy to receive the benefit.

The conditions governing the award of the ORANGE Scholarship (No. 119) are as follows:

I. Only those are eligible to compete for this scholarship whose parents or family shall at the time of the competition have been resident for at least one year in the district of the Princeton Alumni Association of the Oranges, and who themselves are in residence at Princeton as regular members of the Freshman class in a course leading to a Bachelor's degree.

II. For those eligible to compete for this scholarship a special examination shall be arranged as early in the first term as may be convenient, the material of which shall be selected from the subjects required for entrance. The Faculty shall name as winner of the scholarship that student who stands highest in this examination, and as alternate the student who stands next highest. This alternate may become the holder of the scholarship in case of the death or removal of the winner.

III. The scholarship shall be retained by its winner during his Freshman and Sophomore years, provided that in his studies he maintains a rank not below the second general group and that he does not come under serious discipline for misconduct.

UNIVERSITY SCHOLARSHIPS

Out of the income derived from scholarships founded prior to 1903 the Trustees have created forty University scholarships; ten of the value of $150 each, called "A" scholarships; and thirty of the value of $125 each, called "B" Scholarships. These will be awarded during the summer to members of the Senior, Junior, and Sophomore classes who are candidates for the degree of Bachelor of

Arts, and who have previously received remission of tuition, in accordance with the following rules:

I. The ten "A" scholarships will be awarded to those students whose standing during the previous year was in the first general group. If more than ten students are eligible, award will be made according to seniority of class.

II. The thirty "B" scholarships will be awarded to those students whose standing during the previous year was in the second general group. If more than thirty students are eligible, award will be made according to seniority of class.

The holder of a University scholarship will forfeit it:

(a) If he fails to maintain a stand in the general group in which he stood when the scholarship was awarded to him.

(b) If he is irregular in attendance at his college exercises or incurs serious discipline.

(c) If he does not practice economy. A student whose college bill for board, room rent, light, and heat exceeds three hundred dollars will not be eligible for a University scholarship.

REMISSION OF TUITION

In order that candidates for the degree of Bachelor of Arts, of insufficient means and of more than ordinary intellectual ability, may be enabled to secure an education, it is customary for the Faculty to remit a part (never more than one hundred dollars) of the charge for tuition of those applicants who present satisfactory testimonials as to scholarship and character, and proof that the assistance is absolutely needed. This remission is in the form of a loan, and all applicants who receive it are required to sign a non-interest-bearing note.

Remission of tuition is granted in all cases for one year and is subject to the following conditions:

I. The recipient must maintain a stand in one of the first three groups of his class.

II. He must be regular in attendance at his college exercises and free from serious discipline.

III. He must practice economy. A student whose college bill for board, room rent, light, and heat exceeds three hundred dollars will be considered able to pay full tuition.

For application blanks and further information apply to Mr. Charles W. McAlpin, Secretary of the University.

FUNDS FOR CANDIDATES FOR THE MINISTRY

THE RICHARDS FUND.—A bequest of Mrs. Esther Richards, of New York, amounting to $2,970.32, for the benefit of candidates for the ministry. Received in 1790.

THE LESLIE FUND.—A bequest of James Leslie, of New York, of the class of 1759, amounting to $10,677.49, for "the education of poor and pious youth with a view to the ministry of the Gospel in the Presbyterian Church." Received in 1792.

THE HODGE FUND.—A bequest of Hugh Hodge, of Philadelphia, of a house and lot on Market street, above Second (No. 205), "to be held by the Trustees in trust, to lease out from time to time, and the rents to be applied to the support and education of pious youth for the ministry." Received in 1805.

For application blanks for aid from the funds for candidates for the ministry apply to Mr. Charles W. McAlpin, Secretary of the University.

CHARITABLE FUND

THE VAN ARSDALE FUND.—A bequest of Robert Van Arsdale, of Newark, N. J., of the class of 1826, amounting to $3,000, "in trust for promoting charitable instruction in the College of New Jersey, according to the discretion of the Faculty." Received in 1875.

Applications for aid from the Van Arsdale Fund should be made to Professor Henry B. Fine, Dean of the Faculty.

PART IX

DEGREES AND HONORS, 1904–1905

DEGREES CONFERRED, 1904–1905

DEGREE IN COURSE, CONFERRED MARCH, 1905

A.B.—J. Henley Smith, as of the class of 1863.

HONORARY DEGREES, CONFERRED JUNE, 1905

LL.D.—John Huston Finley
James Curtis Hepburn
George Brinton McClellan
Andrew James McCosh
Sir William Mather
Charles Augustus Young

D.D.—Allen Henry Brown
James Denney
James Walter Lowrie

DEGREES IN COURSE, CONFERRED JUNE, 1905

DOCTORS OF PHILOSOPHY (*Ph.D.*)..... 4

Adam Miller Hiltebeitel, 1900
James Oscar Boyd, *New York University*, 1895
Walter Mann Mitchell, *University of Pennsylvania*, 1902
Daniel Lindsey Thomas, *Centre College*, 1900

DOCTOR OF SCIENCE (*D.Sc.*)... 1

Frank Albert Stromsten, *State University of Iowa*, 1900

MASTERS OF ARTS (*A.M.*).....38

Jack Randall Crawford, 1901
Henry Foster Spaulding Frazer, 1901
Karl Louis von Krug, 1901
Schuyler Merritt Cady, 1902
James Maynard, Jr., 1902
Herbert Downs Simpson, 1902
Edward Nelson Teall, 1902
Frederick Raymond Whitman, 1902
Leroy Landis Daniel, 1903
Humphrey Jones Rendall, 1903

John Ewing Steen, 1903
Paul Stratton, 1903
David Marshal Austin, 1904
Louis Garner Bissell, 1904
Edward Harshberger Butler, 1904
Dwight Woodbridge Edwards, 1904
William Campbell Kerr, 1904
Emerson Boyd Morrow, 1904
Conway Wing Shearer, 1904

Dwight Chauncey Chapin, *Occidental*, 1902
Thomas Horace Cleland, *Occidental*, 1903
William Harry Clemons, *Wesleyan*, 1902
Mills Colgate Daughtrey, *Roanoke*, 1904
Charles Allen Fisher, *Lebanon Valley*, 1903
Bert B. Harrison, *Wooster*, 1903
Arnold van Couthen Piccardt Huizinga, *Groningen (Holland)*, 1894
Charles William Kennedy, *Columbia*, 1902
Robert Knox, *Texas*, 1903
Clark Diven Lamberton, *Dickinson*, 1902
John Warren McCombe, *Durham*, 1895
Robert Hugh Morris, *Emory*, 1896
Valentine Jordan Nesbit, *University of the South*, 1904
Karl Bachman Patterson, *Roanoke*, 1904
Arthur Lonson South, *Union*, 1902
David Stanton Tappan, Jr., *Washington and Jefferson*, 1903
Olney Kinkhead Walker, *Coe*, 1903
Robert Burns Wallace, *University of Pennsylvania*, 1896
Alfred Lee Wilson, *Wooster*, 1903

MASTER OF SCIENCE (*M.S.*)..... 1

Irving Wilson Voorhees, B.S., 1901

BACHELORS OF ARTS (*A.B.*)..... 168

Lewis Arthur Ackley
Bertal Leigh Alexander
John Hone Auerbach
Alvah Edgar Bardwell
Henry Jewell Bassett
George Hamilton Beal
John Ogden Bigelow
Joseph Lamb Bodine
Jesse Johnson Bond
William M. Bradshaw
James Riggs Brewster
Richard Sayre Brinkerhoff
Charles Ames Brooks
Noah Reynolds Brooks
Charles Francis Brown
Frederick Lane Brown
John Stewart Burgess
Thomas James Burke
Lambert Cadwalader
Gerard Callan
Pasco Billings Carter
Alfred Thomas Carton

Thomas Bertram Cavanaugh
Kenneth Sherman Clark
Dumont Clarke, Jr.
Chauncey Stewart Conger, Jr.
George Macfeely Conwell
Carson Coover
Ellsworth Bedinger Cornwall
George Harper Coughlin
Kenneth B. Crawford
Samuel Harries Daddow
Charles Carroll Dawkins
John Howard De Ridder, Jr.
Thomas Nelson Dodd
Frederick William Doolittle
Donald Bryce Doyle
Robert Phifer Duncan
Lehman M. Dunning
Donald Blythe Durham
Alfred Ely, Jr.
Eugene Courtney Euwer
Merton S. Fales
Ezra Floyd Ferris, Jr.
Raymond Blaine Fosdick
Walter Longfellow Foulke
Frank Boughton Fox
Henry Mills Fuller
John Clarence Funk
Cecil Huggins Gamble
Albert Sheperd Gardner
Ralph Alden Garrison
Philip Lee Gill
Samuel Thompson Graham
Gilbert Randolph Green
David Craig Griggs
Herbert Brotherton Halliday
Albert Arthur Hamblen
Henry Harris
Horace Edwin Hayden, Jr.
William Henry Heisler, Jr.
Odin Arvine Herr
Edward Hobbs Hilliard
Walter A. Hirsch
Peter Smith Hoe, Jr.
John Holden
Moorhead Benezet Holland
Charles William Holzhauer
Charles Horner
Robert Alonzo Hull
Lum Hunter
Watson Irwin
Edmond Randolph Peaslee Janvrin
William Fell Johnson, Jr.
Harry Seaver Jones
Isaac Simpson Kampmann
George Kane, Jr.
Rudolph Max Kauffmann
William Gordon Kelso, Jr.
Scott Lorain Koch
Robert Highet Leake
Horace Hall Leavitt, Jr.
Winfred Davis Lewis
Frederick Buck Limerick
William Bernard Littell
Edward Harsen Little
Henry Lloyd
Chester Arthur Lyon
Kenneth Rose McAlpin
William Thomas McCandless
William Howard MacCrellish
John Oliver McDonald
Richard Biddle McIlvaine
Edwin Lawrence McKinlay
Irwin McNiece
Charles Vincent Maddux
Eugene Harper Magee
Ellery Anderson Man
Peter Carter Mann
James Gilbert Mason, Jr.
Charles Henry Mathews, Jr.
John Mickle Mayers
James Stevens Messler
Charles Christopher Mierow
Henry Oothout Milliken

Henry Stites Milton
Harold Minott
Charles Cockburn Monie
Frank Shepherd Moore
Horace Mount
Theodore Clayton Mowry
Frank Weaver Mullen, Jr.
Matthias Brickells Murfree
Stanley Foushee Nelson
James Alexander Newell
Bryan Kneass Ogden
Murray Olyphant
Alexander Perry Osborn
George Russell Peabody
William Ellery Pearl
James Phelan
Alroy Scolley Phillips
Urban Hatfield Poindexter
David Stirling Pond
Edward King Ream
Francis Ormond Reinhart
Edgar Richardson
William McLemore Richardson
James Gowen Roper
John Rulon-Miller, Jr.
Alexander Hawksley Rutherfoord
Joseph Wood Rutter
Edwards Sewall Sanford, Jr.
James Lithgow Semple
Harold Hall Short
Rochester Beatty Slaughter
John Walter Spangler
Washington Lewis Stevens
John Aikman Stewart, 3d
Vance Stewart
Henry Mayer Stratton
John Hale Stutesman
C. Kemper Sutton
James Clark Taylor
John Loving Terry
Norman Mattoon Thomas
Charles Dederer Thompson Jr
James Roderick Thompson
Edmund Kierman Trent
Royal Eugene Trone
Willard Voorhees Van Doren
Simon Franklin Wade
Howard Arnold Walter
Clarence Ward
Edward S. Ward
Frederick Leslie Warren
George Titus Wells
Davenport West
John McCahan White
Robert Emmerton Williams
James Arthur Wilsey
John Winnemore
Clarence Edgerton Wright
John Robins Wyckoff
Roger Young
Homer Charles Zink

Franklin Winston Jackson, as of the class of 1875

BACHELORS OF LETTERS (*Litt.B.*)..... 9

Olin Sprague Bishop
Clifford Justis Fuller
Perse Lacy Gaskins
James Lewers Hyde
Edward Julius Koehler
John Matter
Charles Partridge Russell
William Henry Sayen, Jr
James Dayton Voorhees

ELECTRICAL ENGINEERS (*E.E.*)..... 3

Sidney Tarzewell Holt
B.S., Princeton, 1903

Frank Pierce McDermott, Jr.
A.B., Princeton, 1902; A.M., Princeton, 1903
Edgar Palmer
B S., Princeton, 1903

BACHELORS OF SCIENCE (*B.S.*)..... 52

Alfredrick Smith Ames
Harry Howard Armstrong
John Baird Atwood
Herbert Van Vlierden Baldwin
Augustus Cadwell Belden
Alfred Craig Boswell
Lewis Gordon Brosius
Stockton Buzby
Evan Goldsmith Chandlee, Jr.
Sackett Moore Dickinson
David Prince Earle,
Martin Herbert Eisenhart
Charles Swinburne Fayerweather
William Parker Forman
Robert Mills Forsythe
Childs Frick
Frederic Stearns Granger
James Lee Grimes
Donald Campbell Hamilton
Thomas William Harvey, Jr.
Charles Parmenas Henry
Randal Edward Hoyt
Lafon Jones
Rollin Webb Keyes
Dorr Edwin Kimball
Alfred Faris King
Frederick Burr La Forge
Thomas Moore Longcope, Jr.
George Hoag Malcolm
Paul Hirschl Mayer
Percy Eugene Morrell
Leslie Ford Murray
Ernest Delano Nevin
John Nickerson, Jr.
William Dolton Pardoe
Alfred Singleton Paull
Henry Jarvis Raymond
Raymond Denkmann Reimers
John Gouldsmith Rouse
Fordyce Barker St. John
Raymond Sanderson
Walter Lipphardt Schmitz
Charles Edwin Scribner
John Hostetter Shirk
Henry Swan
Charles Trowbridge Tittman
Frank Harrison Tuttle
Lawrence Leslie Tweedy
Chester Howe Walcott
Rudolph Lawrence Walton
Harry Brookfield Wood

Charles Lee Hamilton, as of the class of 1895

CIVIL ENGINEERS (*C.E.*)..... 31

Charles Baker
Hal Barnes
George Martin Brown, Jr.
Curtis Daniel Bunting
Howard E. Bushnell
William Spencer Crosby, Jr.
Albert Harry Doellner, Jr.
Jay Downer
Charles Clement English
Gordon Forbes
Albert Belding Gaines, Jr.
Joseph Rudd Greenwood

Robert Fleming Holliday
Edward Karow, Jr.
Harry Clayton Kessler, Jr.
Walter Denniston Kimball
Walter Leonard Mason
Hubert Moore
Edward Duggan Payne
Albert Curtis Perry
Arthur Wesley Riley
Thurlow Rawson Sharp
Charles Randolph Simpson
Frank Norton Spencer
Thomas Kennedy Stevenson
Walker Woods Stevenson
Edward Davis Townsend
Thomas Gerry Townsend, Jr.
Curtis Perry Upton
Edgar Zollinger Wallower
Ralph Baker Wilson

HONORS CONFERRED, 1904–1905

ACADEMIC SENIOR HONORMEN

HONORS FOR GENERAL EXCELLENCE

BACHELOR OF ARTS COURSE

FIRST GROUP—*Magna cum laude*

Bertal Leigh Alexander
Henry Jewell Bassett
George Macfeely Conwell
Carson Coover
Samuel Harries Daddow
Donald Blythe Durham
Merton S. Fales
Charles Christopher Mierow, *Latin Salutatory*
James Clark Taylor
Norman Mattoon Thomas, *Valedictory*

SECOND GROUP—*Cum laude*

George Hamilton Beal
John Stewart Burgess
Alfred Thomas Carton
Ellsworth Bedinger Cornwall
Frederick William Doolittle
Donald Bryce Doyle
Raymond Blaine Fosdick
Henry Mills Fuller
Cecil Huggins Gamble
Albert Arthur Hamblen
Edward Hobbs Hilliard
Lum Hunter
Watson Irwin
William Gordon Kelso, Jr.
Charles Vincent Maddux
Peter Carter Mann
James Stevens Messler
Henry Stites Milton
Frank Shepherd Moore
Horace Mount
James Alexander Newell
Alroy Scolley Phillips
John Walter Spangler
Charles Dederer Thompson, Jr.
James Roderick Thompson
Royal Eugene Trone
Willard Voorhees Van Doren
Howard Arnold Walter
Clarence Ward

BACHELOR OF LETTERS COURSE

SECOND GROUP—*Cum laude*

John Matter
Charles Partridge Russell

Special Honors in Particular Departments

Philosophy. *High Honors*—John Stewart Burgess, William Gordon Kelso, Jr. *Honors*—Frederick Buck Limerick.

History, Jurisprudence, and Politics. *High Honors*—Norman Mattoon Thomas. *Honors*—Lum Hunter.

Classics. *High Honors*—Donald Blythe Durham, Albert Arthur Hamblen, Charles Christopher Mierow, John Walter Spangler.

English. *High Honors*—Samuel Harries Daddow, James Stevens Messler, Howard Arnold Walter. *Honors*—Henry Stites Milton.

Mathematics. *High Honors*—George Macfeely Conwell, Charles Dederer Thompson, Jr.

Physical Science. *High Honors*—George Macfeely Conwell, Willard Voorhees Van Doren. *Honors*—Donald Bryce Doyle.

SCHOOL OF SCIENCE SENIOR HONORMEN

BACHELOR OF SCIENCE COURSE

Second Group—*Cum laude*

Martin Herbert Eisenhart
Charles Swinburne Fayerweather
Thomas William Harvey, Jr.
Raymond Denkmann Reimers
Charles Edwin Scribner
Henry Swan
Frank Harrison Tuttle

CIVIL ENGINEERING COURSE

Second Group—*Cum laude*

Charles Baker
William Spencer Crosby, Jr.
Edward Duggan Payne
Thurlow Rawson Sharp
Thomas Kennedy Stevenson

FELLOWS

(For names of Fellows, see page 40.)

SENIOR PRIZEMEN

Alexander Guthrie McCosh Prize

John Stewart Burgess.

Lynde Prize Debate

First—Norman Mattoon Thomas,
Second—James Lithgow Semple,
Third—Raymond Blaine Fosdick.

Lynde Debaters

From the American Whig Society	*From the Cliosophic Society*
Raymond Blaine Fosdick,	Ezra Floyd Ferris, Jr.,
John Clarence Funk,	William McLemore Richardson,
Norman Mattoon Thomas.	James Lithgow Semple.

Baird Prizemen

Baird Prize—Howard A. Walter, *Poetry*—Charles Ames Brooks,
Oratory—Merton S. Fales, *Disputation, First*—R. B. Fosdick,
Delivery—Raymond B. Fosdick, *Second*—N. M. Thomas.

Class of 1859 Prize in English Literature

Howard Arnold Walter, with honorable mention of Henry Stites Milton.

George Potts Bible Prize

Merton S. Fales.

Lyman H. Atwater Prize in Political Science

Not awarded.

Frederick Barnard White Prize in Architecture

Clarence Ward, with honorable mention of Chester Howe Walcott.

Theodore Cuyler Prize in Economics

Eugene Courtney Euwer.

Class of 1869 Prize in Ethics

Charles Partridge Russell.

C. O. Joline Prize in American Political History

Horace Mount.

NEW YORK HERALD PRIZE

John Clarence Funk.

MRS. J. THOMSON SWANN PRIZE IN FRENCH LITERATURE

Henry Stites Milton.

ACADEMIC JUNIOR HONORMEN

FIRST GROUP

W. W. Hay
A. A. McKimmie
C. M. Rebert
E. O. Stanley, Jr.
Elias Sunstein
P. L. Urban

SECOND GROUP

J. B. Beaty
J. N. Brooks
E. E. Calverley
R. E. Caskey
G. H. Cresse
W. S. Davison
Deane Edwards
James Gilmore
C. W. Greene
Sinclair Hamilton
Arthur Harris
R. F. Hegeman
W. W. Hildreth
R. C. Hoag
Brison Howie
J. K. Jackson
R. H. Jones, Jr.
C. O. Kienbusch
J. F. Macpherson
F. R. Mason
J. K. Ormond
C. L. Quintard
G. S. Spohn
G. B. Stewart, Jr.
C. H. Strater
A. C. Worth, Jr.

SCHOOL OF SCIENCE JUNIOR HONORMEN

BACHELOR OF SCIENCE COURSE

FIRST GROUP

J. D. Rue, Jr.

SECOND GROUP

Marion Eppley
K. S. Goodman
B. W. Kerr
Sterling Morton
G. H. Reppert

CIVIL ENGINEERING COURSE

FIRST GROUP

E. W. Kellogg

SECOND GROUP

R. A. Barry
F. R. Howe
J. H. Nuelle
E. N. Strom
J. L. Vauclain

JUNIOR PRIZEMEN

JUNIOR FIRST HONOR PRIZE

Divided equally between Alexander Anderson McKimmie and Percy Linwood Urban.

MACLEAN PRIZE

Julian Bonar Beaty.

JUNIOR ORATOR MEDALS

First—Kenneth Martin McEwen, *Third*—James Kenney Jackson,
Second—Granville L. Burton, *Fourth*—George B. Stewart, Jr.

COMPETING JUNIOR ORATORS

From the Cliosophic Society
Edwin Elliott Calverley,
Walter Seaman Davison,
James Kenney Jackson,
George Black Stewart, Jr.

From the American Whig Society
Julian Bonar Beaty,
Granville Lindsay Burton,
Kenneth Martin McEwen,
Elias Sunstein.

DICKINSON PRIZE

Percy Linwood Urban.

THOMAS B. WANAMAKER ENGLISH PRIZE

Divided between Alexander Anderson McKimmie and George Samuel Spohn.

CLASS OF 1870 JUNIOR ENGLISH PRIZES

Anglo-Saxon—Percy Linwood Urban, with honorable mention of Alexander Anderson McKimmie and George Samuel Spohn.
English Literature—Raymond Clarence Hoag

MARY CUNNINGHAM HUMPHREYS JUNIOR GERMAN PRIZES

First—Alexander Anderson McKimmie,
Second—George Samuel Spohn.

CLASS OF 1883 PRIZE FOR ENGLISH IN THE SCHOOL OF SCIENCE

Divided equally between Charles Arthur Ambrose and Louis Henri Conde.

ACADEMIC SOPHOMORE HONORMEN

FIRST GROUP

S. D. Conver,	Perkiomen Seminary, Pennsburg, Pa.
H. Z. Goas,	Perkiomen Seminary, Pennsburg, Pa.
Hugh Hagan,	Wittenberg College, Springfield, Ohio
R. H. Hansl,	Pennington Seminary, Pennington, N. J.
H. M. Johnson,	High School, Peoria, Ill.
A. K. Krause,	Perkiomen Seminary, Pennsburg, Pa.
R. H. Landis,	The Steele High School, Dayton, Ohio
C. F. Smith,	High School, Dedham, Mass.
W. M. Ward,	High School, Newark, N. J.

SECOND GROUP

W. L. Barrows,	Leal's School for Boys, Plainfield, N. J.
H. C. Baskerville,	Bellevue College, Bellevue, Neb.
A. D. Beers,	Plainfield High School, Plainfield, N. J.
H. M. Cummings,	High School, Harrisburg, Pa.
T. H. P. Farr, Jr.,	Groton School, Groton, Mass.
F. I. Farrell,	English and Classical School, Newton, N. J.
A. B. Fowler,	State Normal School, Geneseo, N. Y.
Thaddeus Greski,	Central High School, Philadelphia, Pa.
H. S. Haney,	Perkiomen Seminary, Pennsburg, Pa.
W. A. Henricks,	Central High School, Philadelphia, Pa.
W. R. Hulsizer,	Blair Presbyterial Academy, Blairstown, N.J.
R. W. Kellogg,	High School, Pittsburg, Pa.
T. E. Larson,	Westminster College, Salt Lake City, Utah
W. T. Moyer,	Perkiomen Seminary, Pennsburg, Pa.
J. A. Muller,	Central High School, Philadelphia, Pa.
Philander Norton,	St. John's School, Manlius, N. Y.
J. N. Sayre,	Lawrenceville School, Lawrenceville, N. J.
I. M. Stainback,	Webb School, Bell Buckle, Tenn.

C. C. Van Deusen, Jr.,	Mount Hermon School, Mount Hermon, Mass.
E. W. Walker,	Polytechnic Institute, Brooklyn, N. Y.
H. D. J. Weiser,	Keystone State Normal School, Kutztown, Pa.
C. C. Wooden,	Jacob Tome Institute, Port Deposit, Md.

SCHOOL OF SCIENCE SOPHOMORE HONORMEN

BACHELOR OF SCIENCE COURSE

First Group

C. F. Hinrichsen,	High School, Newark, N. J.

Second Group

J. R. Carson,	Allegheny Preparatory School, Allegheny, Pa.
Robb Carson,	Allegheny Preparatory School, Allegheny, Pa.
F. H. Condit,	High School, West Orange, N. J.
R. M. George,	High School, Bradford, Pa.
L. C. Jones,	Pomfret School, Pomfret, Conn.
G. A. Keeney, Jr.,	The Pingry School, Elizabeth, N. J.

CIVIL ENGINEERING COURSE

First Group

J. E. Freeman,	Lawrenceville School, Lawrenceville, N. J.
F. M. Harris,	Lawrenceville School, Lawrenceville, N. J.
W. H. Hulsizer,	High School, Flemington, N. J.

Second Group

H. V. Alexander,	Male High School, Louisville, Ky.
Harry Bennett,	Mount Hermon School, Mount Hermon, Mass.
R. B. Cook,	The Hill School, Pottstown, Pa.
J. F. Kerper, Jr.,	Harrisburg High School, Harrisburg, Pa.
W. J. Schoonmaker,	Leal's School for Boys, Plainfield, N. J.
L. I. Whitlock,	The Pingry School, Elizabeth, N. J.

SOPHOMORE PRIZEMEN

Class of 1876 Memorial Prize for Debate

Walter Seaman Davison.

CLASS OF 1861 PRIZE

Arthur Boughton Fowler, with honorable mention of Robert Wallis Kellogg.

FRANCIS BIDDLE SOPHOMORE ESSAY PRIZE

Howard Conklin Baskerville, with honorable mention of Thomas Jackson Durell.

CLASS OF 1870 SOPHOMORE ENGLISH PRIZE

Hugh Hagan, with honorable mention of Raleigh Hammond Hansl.

BACHELOR OF SCIENCE SOPHOMORE LATIN SCHOLARSHIP

Henry Lawrence Marsh.

STINNECKE SCHOLARSHIP

Warren Elsing.

ACADEMIC FRESHMEN HONORMEN

FIRST GROUP

D. C. Coyle,	Drury High School, North Adams, Mass.
W. W. Westervelt,	Blair Presbyterial Academy, Blairstown,N. J.
I. T. Wood,	Model School, Trenton, N. J.

SECOND GROUP

L. L. Butler,	Blair Presbyterial Academy, Blairstown,N. J.
C. D. Carey,	High School, Stroudsburg, Pa.
C. S. Davis,	Howard College, East Lake, Ala.
J. F. Dulles,	Mr. P. N. Peck.
Warren Elsing,	Polytechnic Institute, Brooklyn, N. Y.
W. P. Finney, Jr.,	Friends' Academy, Moorestown, N. J.
R. C. Glenn,	Wyoming Seminary, Kingston, Pa.
W. H. F. Grau,	High School, Louisville, Ky.
E. H. W. Harlan,	Episcopal High School, Washington, D. C.
J. W. Haulenbeck,	High School, Walton, N. Y.
C. F. Hosford,	High School, Butler, Pa.
G. A. Leonard,	Goodyear-Burlingame School, Syracuse,N.Y.
M. B. Magoffin,	Mercer Academy, Mercer, Pa.
A. H. Ormond,	Kiskiminetas Springs School, Saltsburg, Pa.
G. M. Overton,	Blair Presbyterial Academy, Blairstown,N J

J. S. Price,	High School, Erie, Pa.
H. R. Stiles,	High School, Flushing, N. Y.
H. S. Stuckey,	Masten Park High School, Buffalo, N. Y.
A. S. Swartz, Jr.,	Lawrenceville School, Lawrenceville, N. J.
P. M. Taylor,	Shady Side Academy, Pittsburg, Pa.
C. W. Vernon,	High School, Morristown, N. J.
C. H. Weelans,	Model School, Trenton, N. J.
D. C. Willard,	Mercersburg Academy, Mercersburg, Pa.
C. C. Wolferth,	Brown College Preparatory School, Phila., Pa.

SCHOOL OF SCIENCE FRESHMEN HONORMEN

BACHELOR OF SCIENCE COURSE

First Group

E. R. Hulbirt, Perkiomen Seminary, Pennsburg, Pa.

Second Group

George Looms, Jr., Male High School, Louisville, Ky.

CIVIL ENGINEERING COURSE

First Group

John Havron, Jr., The Horace Mann School, New York City

Second Group

J. V. Bishop,	William Penn Charter School, Phila., Pa.
G. G. Cornwell,	Montclair Military Academy, Montclair, N. J.
L. E. Dale,	High School, Syracuse, N. Y.
S. E. Dolph,	The Hill School, Pottstown, Pa.
R. V. Frost,	High School, Watkins, N. Y.
R. P. Lingle,	Central High School, Phila., Pa.
W. A. March,	The Hill School, Pottstown, Pa.
W. C. Springer,	Blair Presbyterial Academy, Blairstown, N. J.

FRESHMEN PRIZEMEN

Class of 1883 Prize for English in the School of Science

Harold Holmes.

Alumni Entrance Prize in New York, June, 1905

John Holly Clark, Jr.

Orange Scholarship

Edgar William Beckwith.

PART X

ALUMNI ASSOCIATIONS, LISTS OF STUDENTS, DIRECTORY, AND INDEX

ALUMNI ASSOCIATIONS

ALUMNI ASSOCIATION OF NASSAU HALL.—Founded 1826.

Chairman, Adrian H. Joline, Esq., '70.
Secretary, Professor Henry C. Cameron, Ph.D., D.D., '47.
The Alumni Meeting is held in the Gymnasium on Tuesday of Commencement Week at 1.30 P.M., when the Alumni Dinner is served.

WESTERN ASSOCIATION OF PRINCETON CLUBS

President, John Hamilton Thacher, Esq., '95, Kansas City, Mo.
Secretary and Treasurer, James Mathers, Esq., '90,
702 Society for Savings Building, Cleveland, Ohio.

PRINCETON CLUB OF NEW YORK.—Founded 1866.
72 East 34th St.

President, Parker D. Handy, Esq., '79.
Secretary, George C. Frazer, Esq., '93, 135 Broadway.

PRINCETON CLUB OF PHILADELPHIA.—Chartered 1898.

Honorary President, Hon. Craig Biddle, '41.
President, Alexander Van Rensselaer, Esq., '71.
Secretary, Edmund B. Seymour, Jr., Esq., '98.
911 Stephen Girard Building.

PRINCETON ALUMNI ASSOCIATION OF THE DISTRICT OF COLUMBIA AND SOUTHERN STATES.—Founded 1872.

President, Dr. Wallace Neff, '74.
Secretary, Wallace Donald McLean, Esq., '96.
Columbian Building, Washington, D. C.

PRINCETON CLUB OF WESTERN PENNSYLVANIA.—Founded 1875.

President, Joseph B. Shea, Esq., '85.
Secretary, Axtell J. Byles, Esq., '03, care of Lee and Mackey,
Columbia Bank Building, Pittsburg, Pa.

PRINCETON ALUMNI ASSOCIATION OF CINCINNATI.—Founded 1875.

President, James C. Ernst, '73.
Secretary and Treasurer, Walton C. Hill, '97, Union Trust Building

PRINCETON CLUB OF CHICAGO.—Founded 1876.

President, William Alton, Jr., '84.
Secretary and Treasurer, James W. Thorne, Esq., '00,
115 Michigan Ave.

PRINCETON CLUB OF ST. LOUIS.—Founded 1876.

President, John D. Davis, Esq., '72.
Secretary, Joseph W. Lewis, Esq., '90, 421 Olive St.

PRINCETON ALUMNI ASSOCIATION OF OMAHA.—Founded 1884.

President, Lowrie Childs, Esq., '91.
Secretary, William T. Laing, Esq., '99,
New York Life Building.

PRINCETON ALUMNI ASSOCIATION OF LOUISVILLE.—Founded 1884

President, John G. Cecil, Esq., '76.
Vice-President, John W. Barr, Jr., Esq., '85.
Secretary, Harry A. Strater, Esq., '03, 1303 Third Ave.

CENTRAL PENNSYLVANIA ALUMNI ASSOCIATION OF PRINCETON UNIVERSITY.—Founded 1885.

President, Charles H. Bergner, Esq., '74.
Secretary, W. H. Musser, Esq., '96, 215 N. Second St., Harrisburg

PRINCETON ALUMNI ASSOCIATION OF MARYLAND.—Founded 1885

President, George R. Gaither, Esq., '78.
Treasurer, Austin McLenahan, Esq., '92.
Secretary, William Griffith Wilson, Esq., '94, 822 Park Ave.,
Baltimore.

PRINCETON CLUB OF TRENTON.—Founded 1886.

President, Hon. Frank S. Katzenbach, Jr., '89.
Secretary, W. M. Dickinson, Esq., '97, 135 East State St.

PRINCETON ALUMNI ASSOCIATION OF THE NORTHWEST.
Founded 1886.

President, Rev. Albert B. Marshall, '71.
Secretary-Treasurer, David D. Dayton, Esq., '02, Dayton Building, Minneapolis, Minn.

PRINCETON ALUMNI ASSOCIATION OF NORTHEASTERN PENNSYLVANIA.—Founded 1886.

President, George R. Wright, Esq., '73.
Secretary, Paul Bedford, Esq., '97, Wilkes-Barre.

PRINCETON ALUMNI ASSOCIATION OF NORTHERN OHIO
Founded 1887.

President, H. S. Johnson, Esq., '78.
Secretary, O. W. Upson, Esq., '95, 163 River St., Cleveland.

PRINCETON CLUB OF NEWARK.—Founded 1894.

President, Philip N. Jackson, Esq., '81.
Secretary, James B. Burnett, Jr., Esq., '94, 16 Chestnut St.

PRINCETON CLUB OF ALBANY AND VICINITY.—Founded 1889.

President, Rev. Charles A. Richmond, '83.
Secretary, Andrew Thompson, Esq., '99, 53 Lake Ave., Albany.

PRINCETON ALUMNI ASSOCIATION OF DELAWARE.—Founded 1892.

President, Hon. William C. Spruance, '52.
Secretary, W. H. Porter, Esq., '75, Equitable Building, Wilmington

PRINCETON ALUMNI ASSOCIATION OF CENTRAL NEW YORK
Founded 1894.

President, Professor John Van Duyn, M.D., '62.
Secretary, Joseph D. Green, Esq., '95, 115 East Water St., Syracuse.

PRINCETON ALUMNI ASSOCIATION OF WESTERN NEW YORK
Founded 1894.

President, William B. Lee, '79.
Secretary, Rev. G. B. F. Hallock, D.D., '82, 10 Livingston Park, Rochester.

PRINCETON CLUB OF THE SOUTHWEST.—Founded 1895.

President, John H. Thacher, Esq., '95.
Secretary, John M. Townley, Esq., '97, Second and Walnut Sts. Kansas City, Mo.

PRINCETON CLUB OF UNION COUNTY, NEW JERSEY
Founded 1896.

President, Joseph M. Shellabarger, Esq., '92.
Secretary-Treasurer, Owen H. Fleming, Esq., '04, Plainfield, N. J.

ROCKY MOUNTAIN PRINCETON CLUB.—Founded 1894.

President, S. H. Thompson, Jr., Esq., '97.
Secretary, William Rolla Wilson, Esq., '96, 209 Colorado Building, Denver, Colo.

PRINCETON ALUMNI ASSOCIATION OF NEW ENGLAND
Founded 1897.

President, Francis L. Coolidge, Esq., '84.
Secretary, Hugh Miller, Esq., '01, 60 State St., Boston.

PRINCETON ALUMNI ASSOCIATION OF TEXAS.—Founded 1897.

President, William B. Seeley, Ph.D., '79.
Secretary-Treasurer, Charles C. Cresson, Jr., San Antonio, Texas.

PRINCETON ALUMNI ASSOCIATION OF ERIE.—Founded 1897.

President, William Spencer, Esq., '70.
Secretary, Frank H. Payne, Esq., '91, care Metric Metal Co., Erie.

PRINCETON ALUMNI ASSOCIATION OF INDIANA.—Founded 1898.

President, George T. Porter, Esq., '69.
Secretary, Theodore Potter, M.D., '82, 610 Newton Claypool Building, Indianapolis.

PRINCETON ALUMNI ASSOCIATION OF SOUTH AFRICA
Founded 1898.

President, Rev. F. M. Wood, '58.
Secretary, George W. Lyon, Esq., '96, Box 433, Port Elizabeth, Cape Colony

PRINCETON CLUB OF CEDAR RAPIDS, IOWA.—Founded 1901.
President, Rev. E. R. Burkhalter, '62.
Secretary and Treasurer, Archer C. Sinclair, '98.

PRINCETON CLUB OF HAWAII.—Founded 1901.
President, John Waterhouse, '96.
Secretary, Rev. Edward B. Turner, '96, Beretania Ave., Honolulu.

PRINCETON ALUMNI ASSOCIATION OF SYRIA.—Founded 1902.
President, Rev. William K. Eddy, '75.
Secretary, Robert S. Steen, '01, Syrian Protestant College, Beirut. Syria.

PRINCETON ALUMNI ASSOCIATION OF GERMANY.—Founded 1902.
Secretary, Benjamin E. Messler, Esq., '03.
Home Secretary, Jacob Newton Beam, Esq., '96, Princeton.

PRINCETON CLUB OF PARIS.—Founded 1903.
Secretary, Evans T. Richardson, Esq., '88, 26 rue de Lubeck XVI

PRINCETON ALUMNI ASSOCIATION OF THE ORANGES
Founded 1903.
President, Robert E. Annin, Esq., '80.
Secretary, A. H. Hagemeyer, Esq., '97, South Orange, N. J.

PRINCETON ALUMNI ASSOCIATION OF TENNESSEE.—Founded 1905.
President, William L. Granbery, Esq., '85.
Secretary, William L. Talley, Esq., '03, Murfreesboro, Tenn.

PRINCETON ALUMNI ASSOCIATION OF TOLEDO.—Founded 1905.
Chairman, Hon. Orville S. Brumback, '77.
Secretary, Walter C. Bond, Esq., '05, Toledo, Ohio.

PRINCETON CLUB OF THE NORTHERN PACIFIC.—Founded 1905
Chairman, Frank Howard Lord, Esq., '79.
Secretary, Prof. Chester F. Lee, '84, Seattle, Washington.

STUDENTS OF THE UNIVERSITY

Graduate Students

Allen, Charles Ethelbert, Newbern, Ala., 27 A S
A.B., Southwestern Presbyterian University, 1903.
A.M., Southwestern Presbyterian University, 1905.

Allen, Frank Benjamin, Murphysboro, Ill., 66 B S
A. B., Park College, 1905.

Allis, Oswald Thompson, Philadelphia, Pa., 29 A S
A.B., Univ. of Pennsylvania, 1901.
B.D., Princeton Theological Seminary, 1905.

Allison, Roy Melville, Hopedale, Ohio, 80 Alexander St.
A.B., Washington and Jefferson College, 1902.

Anderson, George Ralph, Wichita, Kan., 317 H S
A.B., Emporia College, 1902.

Angus, Samuel, Ballycowan, Ballymena, Ireland, 14 A S
A.B., Royal Universty of Ireland, 1902.
A.M., Royal University of Ireland, 1903.
A.M., Princeton University, 1905.

Armstrong, Oscar Vance, Beverly, West Va., 402 H S
A.B., Washington and Lee University, 1905.

Bean, James Wilson, Fairfield, Iowa, 213 H S
A.B., Parsons College, 1902.

Beatty, Frank Ernest, Greenfield, Ohio, 404 H S
A.B., University of Wooster, 1904.

Betts, Albert Deems, Mullins, S. C., 29 B S
A.B., Wofford College, 1905.

Bovard, Charles Edward, Tarentum, Pa., 105 H S
A.B., Grove City College, 1903.

Brank, Rockwell Smith, St. Louis, Mo., 31 A S
B.L., University of Virginia, 1899.

Brown, James Bedford, Hastings, Neb., 38 A S
A.B., Princeton University, 1900.

Brownback, Oscar Davis, Spring City, Pa., 305 H S
A.B., Ursinus College, 1904.

Campbell, Edward Irwin, Easton, Pa., 302 H S
A.B., Lafayette College, 1905.

Carey, Edgerton Samuel, Mt. Pleasant, Dundalls, Ireland, 32 B S
Ph.B., Wesleyan University, 1900.

Clark, William Monroe, Louisville, Ky., 27 A S
A.B., Southwestern Pres. University, 1900.

Clarke, Dumont, Jr., Dumont, N. J., Murray-Dodge Hall
A.B., Princeton University, 1905.

Conwell, George Macfeely, Vineland, N. J., 9 S M R
A.B., Princeton University, 1905.

Davies, Howell David, Oshkosh, Wis., 208 H S
A.B., Ripon College, 1904.

Doyle, Donald Bryce, Pittsburg, Pa., 4 S Ed.
A.B., Princeton University, 1905.

Durham, Donald Blythe, Reading, Pa. 8 S Ed
A.B., Princeton University, 1905.

Duschak, Lionel Herman, Buffalo, N. Y., 17 S Ed.
A.B., University of Michigan, 1904.

Eames, Charles Moseley, Jacksonville, Ill., 46 A S
A.B., Illinois College, 1904.

Eckels, Arthur Raymond, Lenox, Iowa, 215 H S
A.B., Coe College, 1904.

Elliott, Newell James, Long Beach, Cal., 26 A S
A.B., University of Nebraska, 1904.

Fellstrom, Arthur Abram, Chicago, Ill., 415 H S
A.B., Simpson College, 1904.

Ferguson, John Bohn, Camden, Ohio, 408 H S
A.B., Miami University, 1903.

Fickes, George Herman, Mt. Rock, Pa., 403 H S
Ph.B., Lafayette College, 1905.

Field, Lloyd Baker, Atlanta, Ga., 40 B S
A.B., Southwestern Pres. University, 1905.

Finney, John Clark, Churchville, Md., 22 A S
A.B., Princeton University, 1903.

Forsythe, John, Clorighmills, Ireland, 14 A S
A.B., Royal University of Ireland, 1904.

Fosdick, Raymond Blaine, Montclair, N. J., Merwick
A.B., Princeton University, 1905.

Fox, Denman Fleming, New Haven, Conn., Princeton Prep. School
A.B., Yale University, 1904.

Freeman, Robert Guthrie, Edinburgh, Scotland, 34 A S
A.B., Allegheny College, 1904.

Garrett, Willis Otis, Norfolk, Va., C, B S
A.B., Geneva College, 1905.

Gibbons, Herbert Adams, Philadelphia, Pa., 306 H S
A.B., University of Pennsylvania, 1902.

Gill, John Lewis, Lancaster Ky., Merwick
B.S., Centre College, 1905.

Gwynn, Edmund Janes, Martinsburg, Pa., 1 B S
A.B., Illinois Wesleyan University, 1887.
A.M., Illinois Wesleyan University, 1889,
Ph.D., Illinois Wesleyan University, 1892.

Hardman, Charles Barnes, Clintonville, Ky., 43 U
A.B., Princeton University, 1902.

Hattori, Bunshiro, Tokio, Japan, 2 N Ed.
A.B., Waseda University, 1902,
A.M., Princeton University, 1904.

Hayes, Luther Newton, Wooster, Ohio, 408 H S
S.B., Wooster University, 1905.

Hemphill, Wesley Lynn, Riverton, N. J., 17 B S
A.B., University of Pennsylvania, 1904.
A.M., University of Pennsylvania, 1905.

Hood, James Willard, Cambridge, Mass., 8 A S
Harvard University.

Hudson, Waller Chenault, Lancaster, Ky., Merwick
A.B., Centre College, 1905.

Irwin, Watson, Springfield, Ill., 4 N R
A.B., Princeton University, 1905.

Jackson, David Ellsworth, Rushville, Ill., 1 B S
A.B., Park College, 1905.

Johnston, William Wallace, Pittsburg, Pa., 400 H S
A.B., Lafayette College, 1904.

Joseph, Lloyd Annesley, Colombo, Ceylon, 6 A S
A.B., Royal College, Ceylon, 1898.

Kane, George, Jr., Highlandtown, Md., 21 A S
A.B., Princeton University, 1905.

Kelso, William Gordon, Jr., Jersey City, N. J., 16 S Ed.
A.B., Princeton University, 1905.

Kennedy, Charles William, New Brighton, S. I., N. Y., Merwick
A.B., Columbia University, 1902.
A.M., Princeton University, 1905.

Lategan, Daniel, Breede River Dist., Worcester, Cape Col. 401 H S
A.B., Victoria College, Skelenbosch, 1901.
A.M., Victoria College, Skelenbosch, 1904.

Lee, Theron, Carbondale, Pa., 25 A S
A.B., Lafayette College, 1904.

Letcher, Gibney Oscar, Henderson, Ky., Merwick
A.B., Centre College, 1905.

Lilly, George Alexander McAuley, Aguilar, Colo., 68 B S
Princeton Theological Seminary, 1895.

Linton, Josiah Marshall, Wissahickon, Philadelphia, 42 A S
A.B., University of Pennsylvania, 1904.

McAlpin, Kenneth Rose, Ossining, N. Y., 35 U
A.B., Princeton University, 1905.

McCallie, Douglas, Chattanooga, Tenn., 57 B S
A.B., University of Virginia, 1904.

McCombe, John Warren, Milwaukee, Wis., 64 B S
A.B., Durham University, 1895,
A.M., Princeton University, 1905.

MacLeod, Fraser Lochland, Chicopee Falls, Mass., 103 H S
A.B., Princeton University, 1904.

McLeod, William C., Lucknow, Ontario, Canada, 103 H S
A.B., University of Manitoba, 1904.

McNeill, Charles Chamberlain, Charlottesville, Va., 36 A S
A.B., Washington and Lee University, 1903.

Mackie, Joseph Bolton Cooper, Philadelphia, Pa., 110 H S
A.B., Geneva College, 1904.

Martin, John Lawrence, Owenton Ky., Merwick
B.S., Centre College, 1905.

Matthews, Leonard Walker, Matthews, N. C., 39 B S
A.B., Presbyterian College of South Carolina, 1902.
A.B., University of North Carolina, 1905.

Messler, James Stevens, Trenton, N. J., 21 L
A.B., Princeton University, 1905.

Mierow, Charles Christopher, Lakewood, N. J., 44 Mercer St.
A.B., Princeton University, 1905.

Miller, Henry Winter, Purcell, Indian Territory, 207 H S
A.B., College of Emporia, 1902.

Mitchell, Walter Mann, Philadelphia, Pa., The Observatory
B.S., University of Pennsylvania, 1902.
Ph.D., Princeton University, 1905.

Moore, Lynford Lardner, Taylorsville, N. C., 118 Alexander St.
A.B., Davidson College, 1889,
M.D., Jefferson Medical College, 1893.

Nakagawa, Takataro, Iyo, Japan, 32 N Ed.
A.B., Waseda University, 1903.

Needels, George Thornton, Scott City, Kan., 41 B S
A.B., Park College, 1905.

Nethery, Thomas George, Ord, Nebraska, 67 B S
A.B., Bellevue College, 1905.

Newkirk, John Martin, Pasadena, Cal., 13 A S
A.B., University of California, 1903.

Odell, Edward Albert, Roslyn, Md., 111 H S
A.B., Princeton University, 1903.

Ostrom, Henry Conrad, Lockport, Ill., 37 A S
B.S., Augustana College, 1895.

Peterson, Charles Wilson, Nanticoke, Pa., 23 B S
A.B., Park College, 1903.

Press, William Carson, West Lynn, Mass., A, A S
A.B., Westminster College, 1904.

Ralston, Delmer Bell, Burlington, Kansas, 3 B S
A.B., Park College, 1905.

Rendall, Humphrey Jones, Lincoln University, Pa., 109 H S
A.B., Princeton University, 1903,
A.M., Princeton University, 1905.

Rhodes, Harry Andrew, Grove City, Pa., 217 H S
A.B., Grove City College, 1904.

Rinker, Richard Albert, E. Mauch Chunk, Pa., 62 B S
A.B., Ursinus College, 1900.

Roberts, Stacy Lippincott, Philadelphia, Pa., 409 H S
A.B., Lafayette College, 1904.

Robinson, Thomas, Hillsboro, Ore., 211 H S
A.B., Pacific University, 1904.

Russell, Charles Partridge, Kenesaw, Neb., 7 N Ed
Litt B., Princeton University, 1905.

Seki, Wachi, Chiba, Japan, 40 N Ed.
A.B., Waseda University, 1895.

Senouye, Hironari, Takata Ichigo, Japan, 59 B S
Gaku Shuin College.

Shafer, Glenn McMeen, Tiffin, Ohio, 65 B S
A.B., Heidelberg University, 1903.

Shiffler, Harry Clarence, Fulton, Mo., 73 B S
A.B., Westminster College, 1904.

Stark, George Shippen, Baltimore, Md., 6 Jackson St.
A.B., Lincoln University, 1899,
B.D., Princeton Theological Seminary, 1902.

Stemple, Wade Hampton, Carmel, West Va., 11½ Bank St.
A.B., Roanoke College, 1905.

Thompson, LeRoy, Warren, Ark., 402 H S
A.B., Washington and Lee University, 1904.

Tuttle, Frank Harrison, Summit, N. J., 168 Nassau St.
B.S.. Princeton University, 1905.

Updegraff, David Benjamin, Mount Pleasant, Ohio, 30 A S
A.B., Yale University, 1903.

Vandervelde, Conrad, Waupun, Wis., 208 H S
A.B., Ripon College, 1904.

VanDoren, Willard Voorhees, Peekskill, N. Y., 30 S Ed.
A.B., Princeton University, 1905.

VanHoesen, Henry Bartlett, Truxton, N. Y., 11 Park Place
A.B., Hobart College, 1905.

Ward, Clarence, Thompson, Ct., 122 L
A.B., Princeton University, 1905.

Warrington, Ernest William, Georgetown, Del., 77 B S
A.B., Delaware College, 1905.

White, John McCahan, Baltimore, Md., 5 A S
A.B., Princeton University, 1905.

Williamson, Robert Clement, Raymore, Mo., 309 H S
A.B., Park College, 1903.

Wilson, James Southall,	Edgewater, Norfolk, Va.,	Merwick
A.B., William and Mary College, 1904.		
A.M., University of Virginia, 1905.		
Winnemore, John,	Trenton, N. J.,	1 A S
A.B., Princeton University, 1905.		
Wright, John,	Princeton, N. J.,	417 H S
A.B., Park College, 1903.		

GRADUATE STUDENTS 104

ACADEMIC SENIOR CLASS

CANDIDATES FOR THE A. B. OR LITT. B. DEGREE.

Abbott, Alfred Houghton,	Corning, N. Y.,	22 B
*Adams, Charles Henry,	Portland, Me.,	122 L
Alexander, James Addison McMillan,	Jackson, Miss.,	75, 76 U
Ambrose, Charles Arthur,	Orange, N. J.,	3 S D
Ambrose, Harrison William,	Orange, N. J.,	3 S D
Anders, William Heebner, Jr.,	Lansdale, Pa.,	3 S W
Anderson, John Bouker,	Madison, N. J.,	52 '79 H
Archer, Gray,	Chapel Hill, N. C.,	19 S Ed
†Armstrong, Wynn,	Camden, N. J.,	11 N W
Atherton, Thomas Henry, Jr.,	Wilkes-Barre, Pa.,	84 B
Baker, Albert Theodore,	Harrisburg, Pa.,	31 B
Balmer, Julius Pratt,	Edgewater, Ill.,	82 Nassau St.
Bannwart, Alexander William,	Newark, N. J.,	131 L
Barnes, Kenneth Bigham,	Gettysburg, Pa.,	19 S W
Barr, Robert Irving,	Orange, N. J.,	71 B
Beaty, Julian Bonar,	Georgetown, S. C.,	1 W B
Bell, Donald Weldon,	Bradford, Pa.,	14 S W
Berry, Frank Allen,	Nashville, Tenn.,	11 N W
Bird, Singleton Hinman,	New York City,	13 '79 H
Black, Alfred Lawrence, Jr.,	Bellingham, Wash.,	131 L
Bliss, Harry Ferdinand,	Newark, N. J.,	9 M D
Bradford, Edward Wild,	Duxbury, Mass.,	19 S W
†Bradley, John Alfred,	Philadelphia, Pa.,	2 S E B
Brandon, James Campbell,	Butler, Pa.,	9 E B

* Candidate for degree in February, 1906.
† Candidate for degree in February, 1907.

Brooks, John Nixon,	Trenton, N. J.,	52 L
Brown, Bruce Whiting,	Glendale, O.,	62 B
*Brown, Coleman Peace,	Philadelphia, Pa.,	16 M D
Brown, Horace,	Baltimore, Md.,	8 E B
Burton, Granville Lindsay,	Louisville, Ky.,	66 L
Butler, Ethan Flagg,	Washington, D. C.,	31 B
Calverley, Edwin Elliott,	Philadelphia, Pa.,	1 N D
Caskey, Robert Edgar,	Philadelphia, Pa.,	1 N D
Cecil, Stuart Robinson,	Louisville, Ky.,	7 W M W
Chamberlain, Benjamin Franklin,	Chester, N. Y.,	2 S E B
Cline, Elmer Louis,	Indianapolis, Ind.,	33 L
Cochran, George Irwin,	Sewickley, Pa.,	185 L
Conde, Louis Henri,	Indianapolis, Ind.,	33 L
Connolly, Harry J.,	Scranton, Pa.,	5 N R
Cossitt, Frederick Henry,	New York City,	52 '79 H
Coxe, Marshall,	St. Paul, Minn.,	7 N R
†Coyle, Irwin Dunn,	Bridgeton, N. J.,	7 S W
Cresse, George Hoffman,	Swainton, N. J.,	10 N M R
Cunningham, George Smith,	Blairsville, Pa.,	133 L
Cunningham, Warren Wardlaw,	Yazoo City, Miss.,	21 Boudinot St.
Dages, Oren Newton,	Columbus, O.,	14 L
†Dailey, Carl Northup,	Detroit, Mich.,	182 L
Davis, James Everett,	Scranton, Pa.,	5 N R
Davison, Walter Seaman,	Hightstown, N. J.,	12 W B
De Turck, James,	Esterly, Pa.,	20 S W
Dorman, Roderick Aitken,	New York City,	7 U P
Douglas, Lee,	Nashville, Tenn.,	64 '79 H
Douglas, Richard, Jr.,	Nashville, Tenn.,	2 B
Drake, Raymond Wade,	Irvington, N. J.,	36 L
Durham, Fred Stranahan,	Philadelphia, Pa.,	9 S E B
Durham, Joseph Edward, Jr.,	Philadelphia, Pa.,	9 S E B
*Duvall, Ralph Gilfillan,	Washington, D. C.,	112 Nassau St.
Edwards, Deane,	St. Paul, Minn.,	7 N R
Eells, John Dwight,	Walton, N. Y.,	131 L
Ely, John Montague,	Cedar Rapids, Ia.,	5 W M W
Fairing, Robert Paterson,	Springfield, Mass.,	5 W M W
Fish, Henry Denison,	Hempstead, N. Y.,	123 L
Fleming, Samuel Wilson, Jr.,	Harrisburg, Pa.,	84 B
Fowler, Archibald Kennedy, Jr.,	Caledonia, N. Y.,	9 E B

* Candidate for degree in February, 1906.

† Candidate for degree in February, 1907.

Franklin, William Henry,	Hightstown, N. J.,	9 E B
Freeman, William Coleman,	Washington, D. C.,	10 U P
Froelick, Louis Daniel,	Brooklyn, N. Y.,	31 L
Furman, Benjamin Applegate,	Newark, N. J.,	12 W B
Gerhard, Edward Ashley,	East Orange, N. J.,	8 E M W
Gilmore, James,	Philadelphia, Pa.,	5 N M R
Goas, Harry Jacob,	Schuylkill Haven, Pa.,	13 S D
Goodman, Kenneth Sawyer,	Chicago, Ill.,	86 Nassau St.
Gopsill, James Whiting,	Jersey City, N. J.,	17 S W
Greene, Clayton Wellington,	Buffalo, N. Y.,	15 N D
Hamilton, Sinclair,	Englewood, N. J.,	133 L
Hamilton, Thomas Parker,	Pittsburg, Pa.,	6 W B
Hammack, Daniel Stewart,	Los Angeles, Cal.,	115 H S
Harris, Arthur,	Newark, N. J.,	19 S M R
Hay, William Woodhull,	New York City,	5 N W
Hegeman, Runkle Fisher,	New Germantown, N. J.,	15 B
Hildreth, William Warren,	Southampton, N. Y.,	6 W B
Hill, Frederick Stubbins,	Britt, Ia.,	9 W W
Hinds, Roger,	Richmond Hill, N. Y.,	2 S D
Hoag, Raymond Clarence,	Waterford, N. J.,	12 S D
Hobbie, Lawrence St. John,	Newark, N. J.,	13 N W
Hoen, Frank Jillard,	Waverly, Md.,	22 B
Holden, Edward Packard, Jr.,	Madison, N. J.,	71 B
†Hopkins, George Anthony,	Amsterdam, N. Y.,	71 L
Hovey, Foster Albert,	Hardwick, Vt.,	21 B
Howie, Brison,	Mt. Airy, Pa.,	15 M D
Hoyt, William Studley,	Jamaica, N. Y.,	3 N R
Irwin, John Rankin,	Keokuk, Iowa,	142 L
Jackson, James Kenney,	Harrisburg, Pa.,	12 W B
Jones, Robert Harrison, Jr.,	Atlanta, Ga.,	3 N R
Kahler, Henry Christian,	Buffalo, N. Y.,	62 '79 H
Kallina, Emanuel John,	Chester, N. Y.,	1 S E B
Keith, Harold Hall,	Chicago, Ill.,	24 L
Kienbusch, Carl Otto v.,	New York City,	62 '79 H
Kline, Frederick Luther,	Ridgway, Pa.,	12 U
Leslie, Eugene Hamilton,	Columbus, O.,	7 S W B
Letts, Fred Clayton,	Evanston, Ill.,	13 '79 H
Libby, Francis Orville,	Portland, Me.,	4 S R
Lloyd, William Hendrie,	Philadelphia, Pa.,	15 N W
*McCauley, Harvey,	Trenton, N. J.,	Trenton, N. J.
†McClure, Alfred, Jr.,	Wyncote, Pa.,	33 '79 H

* Candidate for degree in February, 1906.

† Candidate for degree in February, 1907.

McClanahan, Neal,	Morning Sun, Iowa,	38 S E
McClanahan, Paul,	Morning Sun, Iowa,	38 S E
MacCoy, William Logan,	Bryn Mawr, Pa.,	96 B
Macdonald, Gordon, Jr.,	New York City,	1 L P
McEwen, Kenneth Martin,	Amsterdam, N. Y.,	15 E W
*McGee, Bennington Fitz-Randolph,	Jersey City, N. J.,	83 B
McGiffert, Julian Esselstyn,	Roselle, N. J.,	35 L
Mackenzie, Charles Arthur,	Portland, Ore.,	83 B
McKimmie, Alexander Anderson,	Pictou, Nova Scotia,	9 S R
McLeod, Archibald Angus, Jr.,	Princeton, N. J.,	171 L
Macpherson, Donald Fraser,	St. Louis, Mo.,	42 L
Macpherson, John Francis,	Springfield, Ill.,	38 L
McPherson, Oscar Harmon,	Lawrenceville, N. J.,	17 B
Marquis, Chester Du Bois,	Bloomington, Ill.,	61 '79 H
Maurice, Albert Touzalin,	Athens, Pa.,	15 N W
Miller, John,	Masontown, Pa.,	C E B
Mixsell, Harold Ruckman,	Easton, Pa.,	9 S W B
Morton, Sterling,	Chicago, Ill.,	9 B
Munn, Orson Desaix, Jr.,	New York City,	7 L P
Musser, Clayton Arthur,	Harrisburg, Pa.,	123 L
Nash, Francis John,	Manitowoc, Wis.,	2 B
Nason, Fred Russell,	North Andover, Mass.,	38 L
Nicholls, Charles Chamberlain, Jr.,	St. Louis, Mo.,	66 L
†Odell, Walter Tomkins,	Tomkins Cove, N. Y.,	12 S W B
Offutt, George Warren,	West Washington, D. C.,	6 W B
Ormond, John Kelso,	Princeton, N. J.,	276 Nassau St
Oves, Gilbert McCauley,	Harrisburg, Pa.,	12 N M R
Palmer, Edward Albert,	Houston, Tex.,	7 W M W
Pearl, Dyer, Jr.,	New York City,	52 B
Petrie, James Judd,	Redfield, N. Y.,	7 N M R
Phillips, MacNair Atwater,	Scranton, Pa.,	11 S E B
Pierce, Henry Douglas, Jr.,	Indianapolis, Ind.,	5 E M W
Pierson, Howard Olmstead,	Norwalk, Conn.,	2 S D
†Pitts, Richard Steadman,	Warwick, N. Y.,	75, 76 U
Presbrey, Charles Spalding,	New York City,	14 '79 H
Price, Cole Britton,	Scranton, Pa.,	11 S E B
Pyle, James McAlpin,	New York City,	9 L P
Quintard, Charles Louis,	Poughkeepsie, N. Y.,	9 M D
Rafferty, Ewing Lawrence,	Pittsburg, Pa.,	80 Nassau St.

* Candidate for degree in February, 1906.

† Candidate for degree in February, 1907.

Rebert, Charles Muthart,	Pottstown, Pa.,	7 W W
Reid, Samuel Jackson, Jr.,	Brooklyn, N. Y.,	31 L
Rentschler, Robert Peter,	Hamilton, O.,	7 W B
Richardson, Raymond Beatty,	Cleveland, O.,	35 L
Robinson, Montgomery,	Carthage, N. Y.,	2 S E B
†Rollins, Frank Bingham,	Columbia, Mo.,	2 B
Schaff, Philip Haynes,	Allegheny, Pa.,	133 L
†Schwob, Henri,	New York City,	9 B
Seeley, Paul Stark,	Poughkeepsie, N. Y.,	22 '79 H
Shipman, Jehiel Gardner,	Belvidere, N. J.,	35 L
Shoemaker, Isaac Loper,	Bridgeton, N. J.,	12 S WB
Simons, Frank Peterson,	Plainfield, N. J.,	15 B
Simpson, Randolph Stewart,	Washington, D. C.,	16 N W
Sinclair, Sidney Meroyn,	Cedar Rapids, Ia.,	96 B
Smith, Homer Dewhurst,	Pittsburg, Pa.,	97 B
Smith, Sherburn Merrill,	Milwaukee, Wis.,	1 E M W
Spohn, George Samuel,	Krumsville, Pa.,	13 S D
Stanley, Edward Otis, Jr.,	East Orange, N. J.,	5 N W
Stewart, George Black, Jr.,	Auburn, N. Y.,	9 N W
Stites, John Hunt,	Louisville, Ky.,	42 B
Stockton, Bayard, Jr.,	Princeton, N. J.,	14 '79 H
Stoutenburgh, Robert Bartholomew,	Newark, N. J.,	152 L
Strater, Charles Helme,	Louisville, Ky.,	86 Nassau St.
Sullivan, Paul Barrett,	Asbury Park, N. J.,	A, E B
Sunstein, Elias,	Allegheny, Pa.,	46 L
Talbott, Addison F. M.,	Kansas City, Mo.,	8 W B
Tarbell, Swift,	New York City,	1 N W
*Tobey, Earle Deyo,	Poughkeepsie, N. Y.,	13 B
Tooker, Norman Brown,	East Orange, N. J.,	61 '79 H
Trace, Joseph Montgomery,	Harrisburg, Pa.,	1 M D
Ullmann, Frederic, Jr.,	Chicago, Ill.,	5 B
Updegraff, Samuel,	Pittsburg, Pa.,	8 S E B
Uptegrove, Gifford Mills,	Brooklyn, N. Y.,	5 E M W
Urban, Percy Linwood,	Royersford, Pa.,	38 L
Vaughan, Donald Cuyler,	Garden City, N. Y.,	64 '79 H
Venable, Edward Carrington, Jr.,	Petersburg, Va.,	32 '79 H
Voorhees, Clifford Irving,	New Brunswick, N. J.,	36 L
Walker, Henry Babcock,	Evansville, Ind.,	33 L
Wiley, Silas Moore,	Chicago, Ill.,	86 Nassau St.
Williams, Raymond Storm,	Glen Ridge, N. J.,	7 N M R

*Candidate for degree in February, 1906.

†Candidate for degree in February, 1907.

*Wilson, Robert Marshall,	Milton, Pa.,	122 L
Woodward, Thomas Mullen,	Philadelphia, Pa.,	4 S E B
Worth, Archibald Carter, Jr.,	Cresskill, N. J.,	19 S M R
Zeiss, Harold,	Chicago, Ill.,	10 S D

ACADEMIC SENIORS, ... 187

ACADEMIC JUNIOR CLASS

CANDIDATES FOR THE A. B. OR LITT. B. DEGREE

Abernethy, Grenville Goodale,	New York City,	68 L
Adams, Albert Lloyd,	Johnstown, Pa.,	81 B
Albro, Preston Morris,	Fredonia, N. Y.,	1 B
Alexander, Julian Power,	Jackson, Miss.,	76 U H
Alling, Frederick Augustus,	Newark, N. J.,	7 M D
Anders, Monroe Heebner,	Fairview Village, Pa.,	7 E B
Appel, Fred Gregory,	Indianapolis, Ind.,	72 B
Bangs, William Dean,	Cedar Rapids, Iowa,	11 E B
Barrows, Dudley Hammond,	Plainfield, N. J.,	18 M D
Barrows, Walter Loring,	Greenwich, Conn.,	121 L
Bartholomew, Morey Cutler,	Buffalo, N. Y.,	15 N D
Baskerville, Howard Conklin,	Edgemont, S. Dak.,	18 S Ed
Beers, Albert Daniel,	Plainfield, N. J.,	11 S D
Bell, John Slagle,	Du Bois, Pa.,	3 S W B
Bixby, Edward Welles,	Wilkes-Barre, Pa.,	161 L
Bond, Allen McKee,	Lawrenceburg, Ky.,	73 B
Brakeley, George Archibald,	Dunellen, N. J.,	141 L
Breckinridge, Henry Skillman,	Washington, D. C.,	41 L
Brown, Lowell Huntington,	East Orange, N. J.,	23 B
Brown, Ralph Manning,	Elizabeth, N. J.,	41 '79 H
Brownell, Ralph Chadwick,	Walden, N. Y.,	7 E B
Bunn, Benjamin Franklin,	Parkesburg, Pa.,	121 L
Burkhart, John Paul,	Bernville, Pa.,	5 N E
Chamberlain, Fidelio Gillette,	Baltimore, Md.,	90 Nassau St.
Chapman, Richard Bayly,	Baltimore, Md.,	98 B
Chew, Philip Frederick,	South Orange, N. J.,	7 N D
Childs, Arthur Eliott,	Englewood, N. J.,	161 L
Chislett, John Renshaw,	Pittsburg, Pa.,	6 S W B
Clark, Cassius Brutus,	Cleveland, O.,	8 W W
Coale, Sidney Thompson,	New York City,	2 S W

* Candidate for degree in February, 1906.

Coan, Hamilton Morel,	New York City,	20 N W
Conver, Samuel Dresher,	Lansdale, Pa.,	13 N M R
Cooder, Clement Moffat,	Rahway, N. J.,	6 M D
Cooney, James Lawrence,	Scranton, Pa.,	3 S E
Corkran, Benjamin Warren,	Baltimore, Md.	23 B
Cory, Lowrie,	Midland, Mich.,	17 E W
Cranmer, George Ernest,	Denver, Col.,	73 B
Cummings, Hubertis Maurice,	Harrisburg, Pa.,	10 N W
Cunningham, John Howard,	Washington, D. C.,	141 L
Daggette, William Morton Clair,	Pittsburg, Pa.,	2 W B
Davis, Roblin Henry,	Denver, Col.,	16 W W
Deems, Charles Price,	Hornellsville, N. Y.,	92 B
Dempster, Arthur Albion,	Pittsburg, Pa.,	10 N D
Dillon, Herbert Lowell,	Fitchburg, Mass.,	35 U
Draper, Robert Allan,	Syracuse, N. Y.,	124 L
Duff, George Morgan,	Carnegie, Pa.,	23 L
Dunn, Charles Wesley,	New York City,	27 M D
Durell, Thomas Jackson,	Lawrenceville, N. J.,	23 '79 H
Dutcher, Burchard,	Brooklyn, N. Y.,	80 Nassau St.
Eisele, John Lincoln,	Newark, N. J.,	7 U P
Euwer, Walter Courtney,	Youngstown, O.,	6 E M W
Evans, John Wainwright,	Miles City, Mont.,	4 N W
Farr, Thomas Henry Powers, Jr.,	West Orange, N. J.,	11 L P
Farrell, Frank Ingersoll,	Newton, N. J.,	5 S W
Fowler, Arthur Boughton,	Springville, N. Y.,	9 N Ed
Frontz, William Archibald,	Hughesville, Pa.,	32 L
Funk, Erwin Deaterley,	Richland Centre, Pa.,	20 S W
Garretson, James,	Elmhurst, N. Y.,	15 S D
Gee, Howard James,	East Orange, N. J.,	26 M D
Glass, Frank Purnell,	Montgomery, Ala.,	66 L
Goas, Horace Zweizig,	Schuylkill Haven, Pa.,	14 N M R
Goodwin, France Laurence,	Baltimore, Md.,	15 S D
Gordon, James Gay, Jr.,	Philadelphia, Pa.,	132 L
Green, George Farrar,	Danbury, Conn.,	51 L
Greski, Thaddeus,	Philadelphia, Pa.,	10 W M W
Griscom, William Morris, Jr.,	Bryn Mawr, Pa.,	37 Wiggins St.
Hagan, Hugh,	Springfield, O.,	F, W B
Haight, Harry William,	Mendota, Ill.,	21 M D
Halsey, Edward Chauncey, Jr.,	East Orange, N. J.,	16 W W
‡Halsted, Douglas,	New York City,	24 '79 H
Haney, Harvey S.,	Richland Centre, Pa.,	16 S M R

‡ Candidate for degree in February, 1908.

Hansl, Raleigh Hammond,	New York City,	3 E B
Hart, John Francis,	Philadelphia, Pa.,	10 W M W
Hendrickson, James Allaire,	Red Bank, N. J.,	14 W W
Henricks, Walter Abraham,	Philadelphia, Pa.,	9 S Ed
Herold, Herman Cleveland Herbert, Jr.,	Newark, N. J.,	6 E W
Herrick, Horace Terhune,	New York City,	10 M D
Herring, Donald Grant,	Bloomsburg, Pa.,	8 S W B
Hewitt, Joseph Frederick,	New York City,	132 L
Hinrichsen, Carl Fred.,	Newark, N. J.,	9 W B
Hobbs, Austin Latting,	East Orange, N. J.,	4 W W
Hooks, David Munro,	Holyoke, Mass.,	81 B
Hopkins, George Dare,	Rising Sun, Md.,	A, E B
Howell, Edmund Orlando, Jr.,	Philadelphia, Pa.,	10 E M W
Hulsizer, William Richey,	Asbury, N. J.,	5 E W
Huntting, Gilbert Napier,	East Orange, N. J.,	2 W B
Huyler, Coulter Dunham,	New York City,	3 W M W
Hyde, Wesley Middleton, Jr.,	Academia, Pa.,	308 H S
Jamieson, Edmund Scudder,	Lawrenceville, N. J.,	11 '79 H
Jennings, Morley Wilmot,	Philadelphia, Pa.,	82 B
Johnson, Harry McClure,	Peoria, Ill.,	121 L
Joline, John Forsyth, Jr.,	Philadelphia, Pa.,	6 W M W
Jones, David Robert,	Wilkes-Barre, Pa.,	19 B S
Keepers, William Lloyd,	Newark, N. J.,	53 L
Keith, Roy,	Chicago, Ill.,	5 U P
Kellogg, Robert Wallis,	Princeton, N. J.,	44 A S
Kerr, William McConkey,	Elizabeth, N. J.,	31 '79 H
Kilpatrick, George Worth,	Connellsville, Pa.,	3 S W B
Kirkman, Ralph,	Brooklyn,,N. Y.,	8 W W
Klotz, Fred Guth,	Northampton, Pa.,	19 E W
Krause, Arthur Krupp,	Lansdale, Pa.,	10 N R
Landis, Robert Kumler,	Dayton, O.,	61 L
Larson, Theodore Emil,	Kemmerer, Wyo.,	15 S M R
Larzelere, Charles Townley,	Norristown, Pa.,	6 S E B
Levis, Chester Coursen,	London, England,	80 Nassau St.
Lewman, Henry Peters,	Louisville, Ky.,	80 Nassau St.
Lithgow, Leslie Gordon,	New York City,	24 '79 H
Losey, Leon Artemus,	Nelson, Pa.,	9 N R
Louderbough, John Janvier,	Salem, N. J.,	8 N R
Love, George Stroman,	York, Pa.,	186 L
Lunn, Arthur Washington,	Newark, N. J.,	132 L
Lyman, Charles Gleason,	East Pembroke, N. Y.,	5 E B
McAusland, Ralph Hunter,	Jersey City, N. J.,	68 L

McClintock, Andrew Todd,	Wilkes-Barre, Pa.,	21 '79 H
McClintock. Charles Arbuthnot,	Pittsburg, Pa.,	41 '79 H
McCrary, Irvin James,	Denver, Col.,	5 S W B
McIntyre, Newell Wood,	Denver, Col.,	2 W M W
Mackie, Alexander,	Philadelphia, Pa.,	4 E B
McLean, William Eaton,	Philadelphia, Pa.,	5 N M R
McNiece, Renwick Sloane,	Salt Lake City, Utah,	15 S M R
Marsh, Henry Lawrenec,	Manistee, Mich.	63 '79 H
Martin, James Littell, Jr.,	Belleville, N. J.,	172 L
Martin, Johnson,	Glen Ridge, N. J.,	92 B
Matthews, William,	Scranton, Pa.,	10 N W
Miles, Alfred Robberts,	Brooklyn, N. Y.,	8 W M W
Miller, Charles Francis,	Germantown, Pa.,	Hill
Morris, McLean Forman,	New York City,	11 E B
Moyer, Winfield Tyson,	Landsale, Pa.,	10 N R
Muller, James Arthur,	Philadelphia, Pa.,	8 N Ed
‡Murray, Clapham, Jr.,	Baltimore, Md.,	8 N M R
Neill, George Gillespie Evans,	Helena, Mont.,	51 B
Newcomb, Leslie Wardell,	Mt. Desert Ferry, Me.,	7 S D
Norton, Philander,	Albion, N. Y.,	4 S W B
Nutt, John Budd,	Williamsport, Pa.,	80 Nassau St.
Oliver, Alfred Cookman, Jr.,	Atlantic Highlands, N. J.,	22 M D
Otheman, Roswell Chamberlain	New York City,	11 N D
Otis, Norton Prentiss, Jr.,	Yonkers, N. Y.,	11 N D
Owen, Ralph Woodland,	Eau Claire, Wis.,	53 L
Parker, Harold Thompson,	Oil City, Pa.,	8 W M W
Pears, Thomas Clinton, Jr.,	Pittsburg, Pa.,	54 L
‡Peckham, Paul Tyler,	Westfield, N. J.,	4 W W
‡Perley, Allen Putnam, Jr.,	Williamsport, Pa.,	12 E W
Porterfield, Arthur Boyd,	Oil City, Pa.,	154 L
Rentschler, Gordon Sohn,	Hamilton, O.,	12 WW
Reyburn, Francis Valle, Jr.,	St. Louis, Mo.,	164 L
Rheinstein, Sidney,	New York City,	82 B
Richardson, Leslie Kirk,	Little Falls, N. Y.,	53 B
Riggs, James Forsyth, Jr.,	East Orange, N. J.,	8 N R
Roche, Charles Edward,	East Orange, N. J.,	24 M D
Rust, John Franklin,	Cleveland, O.,	51 L
Sargent, George Lloyd,	Philadelphia, Pa.,	12 E B
Sayre, John Nevin,	South Bethlehem, Pa.,	23 '79 H
Schumaker, Isaac Ripple,	White Haven, Pa.,	54 B

‡ Candidate for degree in February, 1908.

Schwarzschild, Monroe Myron,	New York City.	Hill
Scott, Donald,	Chicago, Ill.,	6 S E B
Scudder, Charles Damarin,	Portsmouth, O.,	11 '79 H
Seitz, Charles Henry,	Philadelphia, Pa.,	12 E B
Shaw, Henry Newton,	Oxford, Pa.,	41 L
Shirley, Rome,	Mamont, Pa.,	11 M D
Sidebotham, Robert Simpson,	Lake City, Mich.,	1 W W
Sloan, Alexander Kilgore,	Greensburg, Pa.,	8 S E B
Sloane, George,	New York City,	17 N W
Smith, Clarence Carroll,	Vicksburg, Miss.,	11 W B
Smith, Clyde Fuller,	Islington, Mass.,	17 N W
Smith, Frederick Newton,	East Worcester, N. Y., 38 Washington Road	
Smith, John Henry,	Newark, N, J.,	172 L
Smith, Lon Champlin,	St. Louis, Mo.,	98 B
Sohmer, Harry Joseph,	New York City,	20 W W
Spencer, Judah Colt,	Erie, Pa.,	183 L
Stainback, Ingram Macklin,	Somerville, Tenn.,	18 S M R
Steele, Leverett Spencer,	New York City,	53 L
Sterritt, Robert John,	Philadelphia, Pa.,	1 S D
Tenney, Harral S.,	Asbury Park, N. J.,	12 B
Thomas, John Gregg,	Baltimore, Md.,	12 '79 H
Thomas, William Leonard,	New York City,	26 M D
Thomson, McLeod,	Altoona, Pa.,	12 '79 H
Timmons, William Max,	Kenton, O.,	82 B
Valentine, Henry Dickson,	Brooklyn, N. Y.,	12 N W
Van Deusen, Courtland Calvin, Jr.,	Canaan Four Corners, N. Y., Dodge Hall	
Vandewater, William Collins,	Princeton, N. J., 45 Van Deventer Ave.	
Van Sant, Robert Morriss,	Newark, N. J.,	6 W M W
Waite, Joseph Raymond,	Warrior's Mark, Pa.,	22 M D
Walker, Edward Washburn,	Brooklyn, N. Y.,	6 N D
Walker, George Alex, Jr.,	Philadelphia, Pa.,	10 E M W
Walsh, Arthur Bernard	Brooklyn, N. Y.,	5 E B
Ward, Waldron Merry,	Newark, N. J.,	9 E M W
Waterhouse, Paul Bernard,	Pasadena, Cal.,	9 N R
Weems, Fontaine Carrington,	Houston, Texas,	3 S E B
Weiser, Herbert David John,	Topton, Pa.,	19 E W
Whitelaw, Hamilton Dey,	St. Louis, Mo.,	61 L
Wiener, Isidore Kalisch,	Newark, N. J.,	B, U
Willett, Seymour Barrett,	Elizabeth, N. J.,	16 B

Williams, Lewis Jeffery,	Bel Air, Md.,	51 '79 H
Wilson, William Walter,	Milton, Pa.,	8 S W B
Wood, John Robinson,	Stanley, N. Y.,	19 B S
Wooden, Charles Carroll,	Hampstead, Md.,	9 S W
Worth, Huntting Case,	Bridgehampton, N. Y.,	143 L
Wuerth, Gustav Christopher,	Montclair, N. J.,	53 B
Wyckoff, Earle Edgerton,	Stroudsburg, Pa.,	276 Nassau St.
Zahniser, Afton Jay,	Pittsburg, Pa.,	6 S W B

ACADEMIC JUNIORS, ... 200

ACADEMIC SOPHOMORE CLASS

CANDIDATES FOR THE A. B. DEGREE

Abbey, Henry, Jr.,	Baltimore, Md.,	148 Nassau St.
Andrews, Elliot Redfield,	Berwyn, Ill.,	40 Wiggins St.
Bacon, Walter Harris, Jr.,	Bridgeton, N. J.,	88 Nassau St.
Baker, Elmer Wayne,	Jamaica, N. Y.,	74 U
Banning, Ephraim, Jr.,	Chicago, Ill.,	2 S W B
Barrett, Hugh Campbell,	Newark, N. J.,	181 L
Beall, Louis Erwin, Jr.,	Uniontown, Pa.,	111 L
Bell, John Arner, Jr.,	Carnegie, Pa.,	A B
Benjamin, Judson Everett,	New York City,	5 M D
Boynton, Frank Lane,	New York City,	11 S D
Braddock, William Hallock,	Jersey City, N. J.,	10 M D
Brennan, Eugene Ambrose,	Edwardsdale, Pa.,	14 N W
Brook, Charles,	Princeton, N. J.,	Ewing St.
Bruce, John Marshall Hills,	Baltimore, Md.,	7 U
Butler, LaFayette Lentz,	Park Place, Pa.,	168 Nassau St.
Cameron, Merton Kirk,	North East, Md.,	11 S M R
Carber, Frank Hough,	Newton, N. J.,	U U
Carey, Charles Donald,	Stroudsburg, Pa.,	20 S Ed
Catlin, Randolph,	Brooklyn, N. Y.,	45 U
Chalmers, Alan Reid,	New York City,	F U
Christie, Robert Dobbie,	Allegheny, Pa.,	14 M D
Clark, Thomas Street,	Cortland, N. Y.,	1 S M R
Cohen, Alfred Harold,	Brooklyn, N. Y.,	25 N Ed
Coons, John Constine,	Wilkes-Barre, Pa.,	3 S R
Coyle, David Cushman,	North Adams, Mass.,	5 S Ed
Cummings, Louis Curtiss,	Brooklyn, N. Y.,	70 U

Davey, William Oscar,	East Orange, N. J.,	I U
Davis, Clifford Sylvester,	Anniston, Ala.,	4 M D
Donovan, Hamilton J.,	Detroit, Mich.,	39 U
Dulles, John Foster,	Auburn, N. Y.,	163 L
Dunham, Calvin Thompson,	Basking Ridge, N. J.,	1 W W
Dunn, William Parmly,	Philadelphia, Pa.,	123 L
Durstine, Roy Sarles,	Brooklyn, N. Y.,	Hill
Elliott, Harry William,	Murfreesboro, Tenn.,	30 U
Elsing, Warren,	Brooklyn, N. Y.,	31 '79 H
Elwood, Vincent Nathan,	Downsville, N. Y.,	4 S D
Farley, John Gallagher, Jr.,	Anniston, Ala.,	7 S E B
Finney, William Parker, Jr.,	Moorestown, N. J.,	9 N M R
Foster, William Early,	Atlantic Highlands, N. J.,	M U
Fowler, Herbert Eugene,	Mansfield, Pa.,	1 B
French, Charles Howard,	Pittsfield, Mass.,	13 S W
Fruit, Fred Thomas,	Sharon, Pa.,	9, 10 U
Gill, William Augustus,	Brooklyn, N. Y.,	12 S E B
Gilmour, Howard Coombs,	Fanwood, N. J.,	181 L
Gilson, Samuel Loren,	Erie, Pa.,	6 N M R
Glass, John Purnell,	Montgomery, Ala.,	14 S D
Glenn, Robert Crispin,	Berwick, Pa.,	14 N W
Goas, Howard Luther,	Schuylkill Haven, Pa.,	14 N M R
Grau, Walter Henry Ferdinand,	Louisville, Ky.,	H U
Green, Caleb Smith,	Trenton, N. J.,	3 E W
Green, Joseph Coy,	Cincinnati, O.,	10 E W
Greene, Clinton Jennings,	Havana, Cuba,	63 B
Haley, Ralph Jandt,	Sioux City, Ia.,	10 W W
Handy, David Markham,	New Orleans, La.,	5 M D
Harlan, Edwin Hanson Webster,	Bel Air, Md.,	8 S M R
Harrison, John Ward,	Fort Worth, Tex.,	30 U
Haulenbeck, James White,	Walton, N. Y.,	95 B
Hawes, Edward Prince,	Pittsburg, Pa.,	14 M D
Heagey, Francis Wenger,	Cochranville, Pa.,	9 W M W
Hill, Rodney, Jr.,	Britt, Ia.,	9 W W
Hosford, Charles Franklin,	Butler, Pa.,	2 E W
Jackson, Job H., Jr.,	Wilmington, Del.,	A U
Johnson, Wade McCall,	Ogden, Utah,	9 W M W
Jones, Henry Lester,	East Orange, N. J.,	1 U
Jones, Robert Breckinridge,	Louisville, Ky.,	2 S W B
Joy, Henry Emil,	Princeton, N. J.,	14 U
Kalisch, Isidore,	Newark, N. J.,	B, U
Kauffman, James Lee,	Columbia, Pa.,	A B

Keepers, George Alfred,	The Dalles, Ore.,	4 U
Kerr, James Thomas,	Erie, Pa.,	B W B
Knott, Lewis Atwood,	Louisville, Ky.,	H U
Krieble, Isaac Reiff,	Norristown, Pa.,	17 S M R
Lanning, Kenneth Hemenway,	Trenton, N. J.,	60 U
Leonard, George Alexander,	Syracuse, N. Y.,	3 U P
Lothrop, George Van Ness, 2d,	Detroit, Mich.,	82 Nassau St.
McCarter, George William Childs,	Newark, N. J.,	54 '79 H
McClintock, Gilbert Stuart,	Wilkes-Barre, Pa.,	21 '79 H
McKinnon, Malcolm,	Detroit, Mich.,	3 S W B
McLean, Edward Huntington,	San Juan, Porto Rico,	B W B
McNair, Robert Shankland,	Belleville, N. J.,	20 S Ed
Magoffin, Montrose Bovard,	Mercer, Pa.,	E U
Marshall, Trenholm Hatch,	New York City,	A B
Mecabe, Ernest Wilson,	Orange, N. J.,	8 E W
Mettler, Thomas Holcombe,	East Millstone, N. J.,	94 B
Miers, Edward Derr,	Trenton, N. J.,	88 Nassau St.
Miller, Everard Patterson, Jr.,	Newark, N. J.,	10 S W
Miller, Kenneth Dexter,	Roselle, N. J.,	12 S E B
Myers, John Platt,	Plattsburg, N. Y.,	62 U
Niles, Michael Schall,	York, Pa.,	Hill
Nuttall, John,	Nuttallburg, W. Va.	12 U
Ormond, Archie Huston,	Princeton, N. J.,	276 Nassau St.
Pfeiffer, Timothy Newell,	Brown's Mills, N. J.,	12 S E B
Phillips, Walter Jenkins,	Scranton, Pa.,	17 U
Pomeroy, William McLellan,	Chambersburg, Pa.,	34 '79 H
Price, James Sanford,	Erie, Pa.,	13 S W
Pullen, Ernest Clifford,	Robbinsville, N. J.,	1 S E B
Pyle, David Hunter McAlpin,	New York City,	9 L P
Pyne, Moses Taylor, Jr.,	New York City,	5 L P
Robbins, Clayton Augustus,	Lakewood, N. J.,	P U
Rose, Alfred Leopold,	New York City,	C U
Rouse, Louis Joseph,	Blue Anchor, N. J.,	9 Park St.
Schroeder, William,	New York City,	F U
Scott, John Fulton Reynolds,	Philadelphia, Pa.,	88 Nassau St.
Serfas, Theodore Adolphus,	Effort, Pa.,	4 U
Sewall, Campbell,	Houston, Tex.,	2 E B
Simons, Leslie Hill,	Ariel, Pa.,	10 S W B
Simpson, Harold Mabee,	Newton, N. J.,	70 U
Smith, Courtland Ninde,	Great Barrington, Mass.,	3 S M R
Smith, Lloyd Weir,	Pittsburg, Pa.,	36 Wiggins St.
Smith, Thomas Leaming,	Philadelphia, Pa.,	36 Wiggins St.

Solinger, Walter Bernard,	Brooklyn, N. Y.,	3 S R
Spencer, Alanson Hosmer,	Gloversville, N. Y.,	88 Nassau St.
Spencer, Charles Du Puy,	Erie, Pa.,	110 Nassau St.
Stiles, Howard Rufus,	Flushing, N. Y.,	K U
Stuart, Allison Ellsworth,	Lafayette, Ind.,	88 Nassau St.
Stuckey, Howard Stanley,	Buffalo, N. Y.,	4 N M R
Swartz, Aaron Snyder, Jr.,	Norristown, Pa.,	88 Nassau St
Taliaferro, Thomas Sinclair,	Houston, Tex.,	17 U
Taylor, Howard Fisher,	Brownsville, Pa.,	144 Nassau St.
Taylor, Porter Morell,	McKeesport, Pa.,	13 M D
Thompson, Walter Neal,	West Pittston, Pa.,	10 S W B
van Dyke, Henry Jackson, 3d,	Princeton, N. J.,	Hill
Van Sickle, Walter Delavan,	New Brunswick, N. J.,	——
Vernon, Charles Wills, Jr.,	Morristown, N. J.,	9 W B
Voigt, Ernest Rudolf,	New York City,	13 U P
Warner, Daniel List,	Baltimore, Md.,	7 U
Watkins, James Morgan,	Chattanooga, Tenn.,	G U
Weelans, Charles Henry,	Trenton, N. J.,	60 U
Westervelt, Walter W.,	Beemerville, N. J.,	26 Ed. Pl.
Wheeler, Nelson Platt, Jr.,	Endeavor, Pa.,	17 U
Williams, Charles,	Nashua, N. H.,	11 W W
Williams, George Walton, Jr.,	Charleston, S. C.,	G U
Winans, James Macdonald,	Princeton, N. J.,	21 Morven St.
Wolferth, Charles Christian,	Clarksboro, N. J.,	K U
Wood, Isaac Trumbull,	Princeton, N. J.,	20 Bayard Lane
Wood, Percy Clifford,	Pittsburg, Pa.,	13 W W

ACADEMIC SOPHOMORES, ... 136

ACADEMIC FRESHMAN CLASS

CANDIDATES FOR THE A. B. DEGREE

Andrews, Leslie Adair,	Flushing, N. Y.,	Van Deventer Pl.
Ankeney, Frederick Newcomer,	Clear Spring, Md.,	34 Van Deventer Av.
Annin, Robert Edwards, Jr.,	South Orange, N. J.,	8 S W
Archibald, James,	Hightstown, N. J.,	92 Stockton St
Armour, Norman,	Princeton, N. J.,	12 U P
Arms, John Taylor, Jr.,	Washington, D. C.,	39 Van Deventer Av.
Armstrong, George Alexander,	New York City,	33 Edwards Pl.
Baer, Walter Benedict,	New York City,	45 Van Deventer Av.

Ballin, Douglas David, New York City, 47 Univ. Pl.
Belding, Frederick Norton, Rockville, Conn., 16 Van Deventer Av.
Benedict, Herbert Williams, West Pittston, Pa., 63 Wiggins St.
Berry, William Ransted, Philadelphia, Pa., 8 U P
Bickford, Warren Franklin, Jr., Muskogee, I. T., 31 N Ed
Boas, Herbert Allan, New York City, D, Hill
Booker, Lester Harry, Helena, Mont., 32 Van Deventer Av.
Brady, Samuel Stansbury, Philadelphia, Pa., 19 Univ. Pl.
Bruce, Albert Cabell, Richmond, Va., 73 Stockton St.
Buchanan, John Grier, Pittsburg, Pa., 46 Van Deventer Av.
Bullitt, John Christian Philadelphia, Pa., 15 Univ. Pl.
Bunting, Aubrey Reeves, Philadelphia, Pa., Hill
Burnett, Charles Hurd, Paterson, N. J., 39 Univ. Pl.
Butler, William Allen, III, New York City., 11 Dickinson St.
Caldwell, Henry Sanders, Pine Bluff, Ark., 2 Nassau St.
Cameron, William Roberts, Manor, Pa., 12 Van Deventer Av.
Carroll, Norman Francis, Newark, N. J., 8 S W
Carver, Wallace Harper, Atlantic City, N. J., 37 Wiggins St.
Cass, Newton Russell, North Orwell, Pa., 54 B
Chambers, Benjamin Bright, Chambersburg, Pa., 34 '79
Chisholm, Corydon Stewart, Princeton, N. J., 98 Mercer St.
Cist, Charles Frank, Cincinnati, Ohio, 41 Univ. Pl.
Clark, John Holley, Jr., Flushing, N. Y., 6 S W
Colborn, Andrew Jackson, Frostburg, Md., 3 Van Deventer Pl.
Conger, Arthur McCrea, Rosemont, Pa., "Morven"
Conger, Richard Stockton, Rosemont, Pa., 18 N Ed
Connett, Francis Speir, South Orange, N. J., 31 Univ. Pl.
Cook, Joseph Alexander, Montclair, N. J., E, E B
Cooper, John Cobb, Jr., Jacksonville, Fla., 32 Wiggins St.
Coxe, Charles Shearman, Utica, N. Y., 15 Univ. Pl.
Craven, Thomas Stokes, Philadelphia, Pa., 5 S M R
Curtis, Frank Louis, Plainfield, N. J., 52 Univ. Pl.
Dawbarn, Waring Lennox, New York City, D, Hill
Dick, John Julian, New York City, 11 U P
Dietrich, Harold Early, Harrisburg, Pa., 192 Nassau St.
Dillon, Edward Aloysius, Laurence, Mass., 6 N R
Dodd, Edward Mills, Montclair, N. J., 14 Park Pl.
Dodge, Bayard, New York City, 15 L P
Dodge, Cleveland Earl, New York City, 15 L P
Dougherty, Edwin Vernon, Jr., Haverford, Pa., Edwards Pl.
Dowd, Heman Laurence, Orange, N. J., 41 Univ. Pl.
Drewes, Howard, Philadelphia, Pa., 4 S M R

Driver, Clarence Wike,	Philadelphia, Pa.,	5 S M R
Ehrehart, Charles Fisher,	Hanover, Pa.,	138 Nassau St.
Ewing, Nathaniel, Jr.,	Bryn Mawr, Pa.,	Edwards Pl.
Farr, John, Jr.,	Short Hills, N. J.,	53 U P
Fenninger, Laurence,	Philadelphia, Pa.,	4 S M R
Fox, Newton Kennedy,	Washington, D. C.,	64 L
Freese, Ambrose,	Pottstown, Pa.,	42 N Ed
Fry, Morton Harrison,	Ephrata, Pa.,	8 Dickinson St.
Gill, James Holton,	Steubenville, O.,	2 Hill
Gillespie, Thomas James, Jr.,	Pittsburg, Pa.,	53 Univ. Pl.
Gilpin, Donald Newcomer,	Baltimore, Md.,	32 Wiggins St.
Glaser, William Charles Dilworth,	Mt. Vernon, N. Y.,	L, Hill
Glover, Samuel Reeves,	Haddonfield, N. J.,	1 S Ed
Gordon, Spencer,	Washington, D. C.,	31 Univ. Pl.
Graff, Peter,	Worthington, Pa.,	23 William St.
Green, Dwight Phelps,	Fulton, Ill.,	19 Madison St.
Green, Edward Franklin,	Buffalo, N. Y.,	27 M D
Groeneveld, John Axtell,	Butte, Mont.,	11 S Ed
Hackman, Willis Wissler	Brunnerville, Pa.,	1 N Ed
*Hall, William Wilson,	Beverly, N. J.,	——
Harrer, Gustave Adolphus, Jr.,	Briarcliff Manor, N. Y.,	31 William St.
Henderson, George,	Cumberland, Md.,	33 Edwards Pl.
Henry, Thomas Charlton,	Philadelphia, Pa.,	15 Univ. Pl.
Hetzel, William Barr,	Pittsburg, Pa.,	53 Univ. Pl.
Hinton, Sebastian,	Washington, D. C.,	41 N Ed.
Hollenbeck, James Sullivan,	Watertown, N. Y.,	Sem. Refectory
Hollowbush, Frank Abercrombie,	Bala, Pa.,	32 Wiggins St.
Holsapple, Earle Taylor,	Hudson, N. Y.,	16 Van Deventer Av.
Howard, Lawrence,	St. Paul, Minn.,	39 Van Deventer Av.
Huddleson, James Howard, Jr.,	Portland, Ore.,	42 Wiggins St.
Hunt, Charles Warren, Jr.,	New York City,	15 Dickinson St.
Hutcheson, William Palmer,	Houston, Texas,	47 Univ. Pl.
Hutchins, James Cadwell, Jr.,	Chicago, Ill.,	47 Univ. Pl.
Hutchinson, Charles Percy,	Trenton, N. J.,	31 Univ. Pl.
Hutchinson, Mahlon,	Georgetown, N. J.,	A, Hill
Jennings, Lacy Donoho,	St. Louis, Mo.,	19 N Ed
Johnston, Russell Willhide,	New Bloomfield, Pa.,	31 N Ed
Jones, James Chester, Jr.,	St. Louis, Mo.,	138 Nassau St.
Keen, Frank Adams,	Philadelphia, Pa.,	46 Van Deventer Av.
Kent, Platt,	New York City,	31 Univ. Pl.
Kerr, Edwin Silas Wells,	Wilkes-Barre, Pa.,	28 S Ed

* Died September 20, 1905.

Keys, William Anderson, Jr.,	New York City,	31 Univ. Pl.
Kimball, Paul,	Chelsea, Mass.,	72 L
King, Rolland Rose,	Bloomfield, N. J.,	D, W B
La Roe, Wilbur, Jr.,	Perth Amboy, N. J.,	22 N Ed
Laubach, Frank Charles,	Benton, Pa.,	3 M D
Longstreet, Harry Martine,	Matawan, N. J.,	31 Univ. Pl.
Lupfer, Robert N.,	Springfield, Ohio,	19 Univ. Pl.
Lyon, Oliver Crane,	Caldwell, N. J.,	34 Van Deventer Av.
McGee, William Lewis,	Wilkes-Barre, Pa.	40 S Ed
Mackie, Norman Story,	Philadelphia, Pa.,	15 Univ. Pl.
McWilliams, Norman Beattie,	Ossining, N. Y.,	13 S M R
Maresi, Pompeo Margherita,	Brooklyn, N. Y.,	Edwards Pl.
Maulsby, Henry Hanson,	Frederick, Md.,	37 Wiggins St.
Maury, James Robb, Jr.,	Philadelphia, Pa.,	Hill
Mayer, Ferdinand Lathrop,	Indianapolis, Ind.,	47 Univ. Pl.
Medina, Harold Raymond,	Brooklyn, N. Y.,	Edwards Pl.
Meese, David Osborne,	Mansfield, Ohio,	43 B
Mewhinney, Edward Archibald,	Oxford, N. J.,	29 N Ed
Mildeberger, Victor Richmond,	New York City,	Hill
Mitchell, Samuel Stewart,	Buffalo, N. Y.,	144 L
Mulford, Roland Heishon,	Camden, N. J.,	2 Nassau St.
Munkittrick, Malcolm Turner,	Summit, N. J.,	42 B
Murray, Steuben Butler, Jr.,	Bellevue, Pa.,	11 Park St.
Myers, Abraham Charles,	Williamsport, Pa.,	11 Univ. Pl.
Myers, Frank Claton,	Bermudian, Pa.,	10 S E B
Myers, William Heyward, Jr.,	Williamsport, Pa.,	11 Univ. Pl.
Neilson, Jay Arden,	New Bloomfield, Pa.,	36 N Ed
Nichols, Charles Herbert,	Trinidad, Col.,	31 Nassau St.
Niles, Frank Sergeant,	Sacket's Harbor, N. Y.,	Sem. Refectory
Northwood, Arthur,	Trenton, N. J.,	14 N Ed
Nutting, John Hugh,	Montclair, N. J.	14 Park St.
Ober, Douglas,	Baltimore, Md.,	Edwards Pl.
Ober, John Hambleton,	Lutherville, Md.,	Edwards Pl.
Ogden. Elliott Matthews,	Milwaukee, Wis.,	172 Nassau St.
Olcott, Gage,	Montclair, N. J.,	39 Univ.Pl.
Olds, Edward Clarence,	Fort Wayne, Ind.,	38 U
Oliphant, Alfred Dayton,	Trenton, N. J.,	31 Univ. Pl.
Osborn, Henry Fairfield, Jr.,	New York City,	162 L
Ottinger, William Nickerson,	Philadelphia, Pa.,	1 S D
Parsons, Richard Percival,	Garden City, N. Y.,	33 Ed. Pl.
Passarella, Michael,	Colora, Md.,	11 S M R
Peacock, James Craig,	Philadelphia, Pa.,	19 N W

Peirce, Caleb Clarence, Philadelphia, Pa., 11 Dickinson St.
Pennington, James Andrew Gregg, Baltimore, Md., 33 Edwards Pl.
Phillips, Charles Kaufman, Dauberville, Pa., 10 S R
Phraner, Spencer Wilson, Bloomfield, N. J., 18 N W
Plaut, Louis Simon, Newark, N. J., 15 Univ. Pl.
Plunkett, Charles Taylor, Adams, Mass., 31 Univ. Pl.
Purves, William Mortimer, Princeton, N. J., 25 Alexander St.
Rankin, Edward E., Albany, N. Y., 7 E M W
Rankin, Herbert Edward, Albany, N. Y., 7 E M W
Reynolds, Hewitt, Cumberland, Md., 33 Edwards Pl.
Reynolds, Lester Jay, New York City, 32 Wiggins St.
Richardson, Leonard Woods, Albany, N. Y., 7 E M W
Richardson, William Emanuel, Bernville, Pa., 10 S E B
Riddle, Robert Jemison, Jr., Nashville, Tenn., 53 Univ. Pl.
Roberts, Donald, Brooklyn, N. Y., 66 U
Ropes, Ripley, Morristown, N. J., 23 Edwards Pl.
Samuels Arthur Hiram, Hartford, Conn., 46 Van Deventer Av.
Sanford, Arthur Hunt, Mamaroneck, N. Y., 34 Van Deventer Av.
Sanford, Ferdinand Doan, Warwick, N. Y., 29 Van Deventer Av.
Sayer, Winthrop, Brooklyn, N. Y., 44 Van Deventer Av.
Schaff, Walter, Allegheny, Pa., 8 W B
Scott, Charles Hodge, Princeton, N. J., 56 Bayard Lane
Scott, Leighton Pearson, Summit Hill, Pa., 10 S R
Scull, John Irwin, Somerset, Pa., Edwards Pl.
Shellabarger, Samuel, Washington, D. C., 19 Univ. Pl.
Shimberg, Charles Rosenthal, London, Eng., 32 Van Deventer Av.
Shoemaker, John Horace, Lock Haven, Pa., 36 N Ed
Shultz, Daniel Shultz, Philadelphia, Pa., 3 M D
Sichelstiel, Alfred Joseph, Pittsburg, Pa., 34 Van Deventer Av.
Sidwell, Paul, Frankfort, Ind., 47 Univ. Pl.
Silvers, William Russell, Cranbury, N. J., 37 Wiggins St.
Smith, Ritchie Hasbrouck, Harrisburg, Pa., 22 Madison St.
Southerland, Clarence Andrew, Wilmington, Del., 172 Nassau St.
Stern, Kenneth Gibson, Westfield, N. J., 45 Univ. Pl.
Sterringer, Mervin, Harrisburg, Pa., 16 Witherspoon St.
Stevenson, Philip Henry, Braddock, Pa., 23 William St.
Stewart, Paul Meriam, Cleveland, O., 43 B
Stockton, Richard, Princeton, N. J., "Morven"
Stockton, William Tennent, Jacksonville, Fla., 14 Park St.
Stohlmann, William Frederick, Brooklyn, N. Y., 39 Univ. Pl.
Strange, Robert, South Orange, N. J., 12 S M R
Thomas, Isaac, Pottstown, Pa., 9 E W

Thomas, Ralph Llewellyn,	Lewisburg, Pa.,	72 L
Thorburn, Grant,	Rockaway, N. J.,	23 Edwards Pl.
Tomlinson, Paul Greene,	Elizabeth, N. J.,	41 Univ. Pl.
Tonnelé, Theodore Mills,	Pittsburg, Pa.,	53 Univ. Pl.
Trimble, Henry Weekes,	Montclair, N. J.,	39 Univ. Pl.
Waller, Percy Elmer,	Skaneateles, N. Y.,	138 Nassau St
Weaver, Philip Barnhart,	Bellefonte, Pa.,	D, W B
Webb, David Williams,	Nashville, Tenn.,	53 Univ. Pl.
Woodruff, Thomas Simonson,	Newton, N. J.,	41 Univ. Pl.
Wyckoff, Ernest Holt,	Stroudsburg, Pa.,	19 M D
Zimmerman, Levi Saylor,	Lebanon, Pa.,	22 Van Deventer Av.
Zinsser, William Herman,	New York City,	D, Hill

ACADEMIC FRESHMEN 187

Students in the John C. Green School of Science

SCHOOL OF ELECTRICAL ENGINEERING

Second Year

Brokaw, Robert Wykoff, A. B., Princeton, 1904.	St. Louis, Mo.,	4 S W
Clark, William Augustus, A. B., Princeton, 1904.	Flushing, N. Y.,	6 S W
Hull, Arthur Stanley, A. B., Princeton, 1903.	Scranton, Pa.,	4 N R
Ranken, David Dean, B. S., Princeton, 1904.	St. Louis, Mo.,	1 S W

First Year

Brower, Charles de Hart, Jr., A. B., Princeton, 1904.	New York City,	2 L P
Karow, Edward, Jr., C. E., Princeton, 1905.	Savannah, Ga.,	Merwick
Shearer, Conway Wing, A. B., Princeton, 1904; A. M., Princeton, 1905.	New York City,	Merwick
Forbes Gordon, C. E., Princeton, 1905.	Morristown, N. J.,	Merwick

Students in the Electrical School, . . 8

School of Science Senior Class

Candidates for the B. S. Degree

Bard, Ralph Austin,	Chicago, Ill.,	5 W B
Bokum, Norris Harkness,	Chicago, Ill.,	5 W B
Brooke, Francis Mark,	Haverford, Pa.,	16 M D
†Brown, Edmund Leighton,	New York City,	4 L P
Byram, Herbert Fulton,	Pittsburg, Pa.,	74 B

† Candidate for degree in February, 1907.

Carothers, Samuel,	Pittsburg, Pa.,	43 L
Cross, James Frederick, Jr.,	East Orange, N. J.,	171 L
Cutler, Willard Walker, Jr.,	Morristown, N. J.,	7 W W
Darlington, Henry Buckingham,	Indianapolis, Ind.,	182 L
Doane, Robert Edward,	Elmira, N. Y.,	6 W W
Eppley, Marion,	West Orange, N. J.,	7 L P
*Flagg, Herbert Harbeck,	Brooklyn, N. Y.,	52 B
†Gibson, Brownlee Harper,	Pittsburg, Pa.,	6 E B
Goodrich, Latimer,	Keokuk, Ia.,	153 L
Greenland, Harold Beebe,	Syracuse, N. Y.,	52 L
Hale, Paul Morrow,	Duluth, Minn.,	53 '79 H
Hayes, Matthew Cowden,	Lewisburg, Pa.,	72 L
Hazard, Willson	Richmond, Va.,	3 W B
Higbie Harrison Sayre,	Newark, N. J.,	36 L
†Hoagland, Amos Nathan,	Oxford, N. J.,	6 E B
Ill, Edgar Alexander,	Newark, N. J.,	31 L
Kennedy, Frank,	Hagerstown, Md.,	2 B
Kerr, Benjamin Warfield,	Newark, N. J.,	20 E W
Laird, Douglas,	Toronto, Canada,	24 L
McCreary, George Deardorff, Jr.,	Philadelphia, Pa.,	32 '79 H
McKellar, Edward Duncan,	Forney, Texas,	192 Nassau St.
McNaughton, John,	Kaukauna, Wis.,	71 L
†Moore, Harry Lawson,	Clarion, Pa.,	185 L
Orr, Arthur, Jr.,	Evanston, Ill.,	142 L
Otis, Arthur Houghton,	Yonkers, N. Y.,	5 W B
Perry, Oliver Hazard, Jr.,	Elmhurst, N. Y.,	16 M D
*Preusse, Julius Wood,	Braddock, Pa.,	42 '79 H
Reed, Howard Beck,	Seabright, N. J.,	38 Wiggins St.
Reppert, George Henry,	Pittsburg, Pa.,	7 B
Rue, John Davison, Jr.,	Trenton, N. J.,	21 L
Simons, George Stuart, Jr.,	Plainfield, N. J.,	15 B
Spelletich, Kalman,	Davenport, Ia.,	62 B
†Swan, Adron Leigh,	Duluth, Minn.,	8 W B
Thayer, Lee Carlton, Jr.,	Indianapolis, Ind.,	152 L
Vanderbilt, Oliver De Gray, Jr.,	East Orange, N. J.,	8 E M W
Westcott, William Clyde,	Union City, Pa.,	44 B
Whitney, Warren Calvin,	Norwalk, O.,	185 L
*Wills, Ernest Chalkley,	Greenwich, Conn.,	53 '79 H
Wilson, Arthur Edwin,	Pittsburg, Pa.,	97 B

* Candidate for degree in February, 1906.

† Candidate for degree in February, 1907.

CANDIDATES FOR THE C. E. DEGREE

Baiter, Charles William Grevel,	New York City,	32 B
Barry, Ralph Andrew,	Wabash, Ind.,	6 N W
Brasher, Philip Marston,	Steamboat Springs, Colo.,	1 N W
Brunswick, Walter,	New York City,	10 S M R
Connell, Philip Graham,	Evanston, Ill.,	4 W M W
Edwards, Harold Sydney,	Santa Barbara, Cal.,	80 Nassau St
Etherington, Sandford Garland,	East Orange, N. J.,	80 Nassau St.
Hardy, Elbert Clarence,	Buffalo, N. Y.,	7 B
Haskell, Fred Kibbe,	Bradford, Pa.,	4 W M W
Howe, Frank Ray,	Washington, D. C.,	16 N W
Johnson, Sylvester, Jr.,	Indianapolis, Ind.,	96 B
Kellogg, Edward Washburn,	Vineland, N. J.,	9 S R
Leaming, Richard Smith,	Dennisville, N. J.,	43 L
Liggett, Thomas, Jr.,	Sewickley, Pa.,	44 B
McCarthy, Daniel Francis,	Princeton, N. J.,	169 Nassau St.
McClure, Jay Cooke,	Wyncote, Pa.,	33 '79 H
Munn, John Randall,	East Orange, N. J.,	4 W M W
Nuelle, Joseph Henry,	Chicago, Ill.,	4 S E
Oakford, William Proctor Searight,	Peoria, Ill.,	1 E M W
Scott, Alexander Hodge,	Germantown, Pa.,	4 S R
Shoemaker, Linden Brown,	Little Silver, N. J.,	1 E M W
Smith, Herbert James,	Putnam, Conn.,	7 B
Stagg, David Christie,	Leonia, N. J.,	9 M D
Stickney, Henry,	Baltimore, Md.,	11 S W
Strom, Eugene Nathan,	Chicago, Ill.,	82 Nassau St.
Stromberg, Carl Martin,	Saranac Lake, N. Y.,	8 E B
Thompson, Herbert Stephen,	Kingston, N. J.,	Kingston, N. J.
Turner, William Fitzhugh,	Princeton, N. J.,	31 Nassau St.
Vauclain, Jacques Leonard,	Rosemont, Pa.,	22 '79 H
Waller, John Cadwallader,	Skaneateles, N. Y.,	153 L
Wyeth, Nathaniel Jarvis,	Baltimore, Md.,	133 L

SCHOOL OF SCIENCE SENIORS, ... 75

SCHOOL OF SCIENCE JUNIOR CLASS

CANDIDATES FOR THE B. S. DEGREE

Armstrong, William Metcalf,	Oakmont, Pa.,	112 L
Barnes, Harry Hamilton	Syracuse, N. Y.,	12 M D
Bedinger, John Van Doren,	Anchorage, Ky.,	6 W M W

Camp, William Hoke,	Louisville, Ky.,	9 E M W
Carson, John Renshaw,	Sewickley, Pa.,	Hill
Carson, Robb,	Sewickley, Pa.,	Hill
Cochran, Marshall Gilbert,	Pittsburg, Pa.,	6 S W B
Condit, Frank Harvey,	West Orange, N. J.,	5 S W
Cooke, Frederick William, Jr.,	Paterson, N. J.,	2 M D
Coyle, Ray Frederick,	Denver, Colo.,	5 S W B
Crary, Delos,	Hancock, N. Y.,	23 L
Cunningham, Frederick William,	Point Pleasant, N. J.,	12 S W
Davis, David Melvin,	Buffalo, N. Y.,	54 L
Davis, Jefferson Hayes	Colorado Springs, Colo.,	12 B
Galbreath, John A.,	Lincoln Univ., Pa.,	21 B
George, Ralph Moore,	Bradford, Pa.,	14 S W
Hasbrouck, Bernard,	Nyack, N. Y.,	21 B
Horn, John Howard,	Stonington, Conn.,	2 M D
James, Newton,	New Rochelle, N. Y.,	64 B
Jones, Leonard Chester,	New York City,	11 L P
Keeney, George Alonzo, Jr.,	Elizabeth, N. J.,	16 B
Kidney, Richard Sluyter,	Auburn, N. Y.,	9 N W
McAlpin, Allan Heyward,	New York City,	35 U
Menefee, Arthur Burley,	Louisville, Ky.,	1 W M W
Osborn, Arthur Herbert,	New York City,	68 L
Penrose, Charles,	Philadelphia, Pa.,	63 '79 H
Porch, Charles Douglas,	Baltimore, Md.,	7 S W
Read, Robert James,	Huntingdon, Pa.,	7 E M W
Robert, Daniel Rutgers,	Brooklyn, N. Y.,	154 L
Taliaferro, Charles Champ, Jr.,	Orange, Va.,	12 M D
Von Weise, Louis Bradford,	Greenville, Ill.,	82 Nassau St.
Ward, William Spencer,	Newark, N. J.,	9 E M W
Warren, Guy Scott,	Louisville, Ky.,	1 W M W
Washburn, Arthur Prescott,	Hackensack, N. J.,	Hill
Wells, Lloyd Parker,	St. Louis, Mo.,	64 B
Wisner, Eugene Dutihl,	Summit, N. J.,	34 B
‡Wood, Irving Emory,	Pittsburg, Pa.,	13 W W

CANDIDATES FOR THE C. E. DEGREE

Alexander, Hubert Victor,	Louisville, Ky.,	4 E M W
Bennett, Harry,	Princeton, N. J.,	19 Madison St.
Bradley, Wilson,	Duluth, Minn.,	7 S R
Brooks, Winfred Mudge,	East Orange, N. J.,	7 S R

‡ Candidate for degree in February, 1908.

Clark, Harry Newton,	Ellenville, N. Y.,	9 S W
Cook, Richard Bailey,	Pottstown, Pa.,	183 L
Creighton, Joseph Hasson,	Altoona, Pa.,	4 E M W
Dain, Nathaniel,	Peekskill, N. Y.,	23 M D
Daub, Walter Henry,	Pottstown, Pa.,	112 L
Davis, Frank Faville,	New York City,	112 L
Davis, Stephen Roger,	Eau Claire, Wis.,	23 M D
Doyle, Louis John,	Philadelphia, Pa.,	32 B
Dutcher, Ogden,	New York City,	19 Madison St.
Fager, Paul,	Harrisburg, Pa.,	5 E B
Freeman, John Edgar,	Chicago, Ill.,	92 B
Gehrken, John Henry,	Brooklyn, N. Y.,	7 S D
Geyer, Berkeley Willard,	Washington, D. C.,	10 N D
Gibbens, Chalmers Blair,	Parkersburg, W. Va.,	184 L
Gordon, William Stuart, Jr.,	New York City,	143 L
Harris, Frederick Morgan,	Toronto, Canada,	19 Madison St.
Henry, Alexander, Jr.,	Frankford, Pa.,	184 L
Holbrook, Rossiter,	Ossining, N. Y.,	182 L
Hulsizer, William Hill,	Flemington, N. J.,	5 E W
Kerper, John Frederic, Jr.,	Camp Hill, Pa.,	2 N D
Kouwenhoven, Cornelius B.,	Brooklyn, N. Y.,	6 N D
Leitch, Robert Ingram,	Evanston, Ill.,	12 E W
Lyons, Harold Chandos Clave,	New York City,	7 S D
McCormick, Fred Culver,	Williamsport, Pa.,	3 S E B
McCracken, Frederic Beekman,	Newark, N. J.,	4 W B
McIlvain, Walter Biddle,	East Downingtown, Pa.,	7 N D
McKee, James Dalzell,	Allegheny, Pa.,	6 B
Mathews, Edward Gilbert,	Brooklyn, N. Y.,	3 E B
Nash, Duane Howard, Jr.,	Millington, N. J.,	10 E B
Osborne, Lemuel,	East Orange, N. J.,	3 W B
Randolph, George Mortimer Fitz,	Freehold, N. J.,	3 E M W
Rees, Bird Le Grand,	Elmira, N. Y.,	Hill
Schaff, Schuyler Renwick,	Flushing, N. Y.,	3 E M W
Schoonmaker, William James,	Plainfield, N. J.,	2 N D
Scott, Robert Frederick,	Indianapolis, Ind.,	72 B
Stratton, Benjamin Franklin,	Trenton, N. J.,	20 A S
Whitlock, Louis Ivey,	Elizabeth, N. J.,	Hill
Willock, George Johnston,	Allegheny, Pa.,	6 E M W

School of Science Sophomore Class

Candidates for the B.S. or Litt. B. Degree

Adams, William Thomas, Jr.,	Corinth, Miss.,	14 S D
Allen, Montague,	Park City, Utah,	79 U
Atlee, Samuel, 2d,	Fort Madison, Ia.,	11 W B
Averill, William McFaddin,	Beaumont, Texas,	7 S R
Bane, William Mathews,	Denver, Colo.,	Hill
Barler, Harold Augustus,	Chicago, Ill.,	134 L
Bergland, William Scott,	Baltimore, Md.,	7 U
Bockoven, Francis Harold,	Basking Ridge, N. J.,	3 W W
Broesel, Herman, Jr.,	New York City,	90 Nassau St.
Brown, Garvin Morris,	Indianapolis, Ind.,	42 U
Champlin, Charles Davenport,	Hammondsport, N.Y.,	144 Nassau St.
Clark, Walton, Jr.,	Philadelphia, Pa.,	44 '79 H
Clothier, Robert Clarkson,	Bryn Mawr, Pa.,	17 U
Colvin, William Henry,	Pittsburg, Pa.,	61 B
Connors, William Bernard,	Stoneham, Mass.,	61 B
Cook, Frederick Russell,	Arlington, Mass.,	11 E W
Cowan, James Dickinson,	Canastota, N. Y.,	47 U
Crawford, Sidney Lawrence,	Merion, Pa.,	14 B
Daniel, Zaccheus,	Hawthorn, Pa.,	7 S Ed
Davis, Owen Llewellyn,	Trinidad, Colo.,	62 U
Drayton, Emlen Meigs,	Philadelphia, Pa.,	6 U P
Ebert, St. Gem,	St. Louis, Mo.,	15 U
Failey, Robert Burnett,	Indianapolis, Ind.,	110 Nassau St.
Fender, Robert Chesley,	Chester, Pa.,	73 U
Flory, Grant Glenwood,	Dayton, O.,	14 B
Fluhart, Theodore La Mar,	Dayton, O.,	14 B
Forsyth, Robert Wright, Jr.,	Camden, N. J.,	36 Wiggins St.
Gallaher, Samuel Miller,	Charleston, W. Va.,	8 S M R
George, Louis Brainard,	Lynn, Mass.,	3 L P
Grandin, Guy Merkle,	Tidioute, Pa.,	45 U
Gregory, Frank Albert,	Indianapolis, Ind.,	110 Nassau St.
Halliday, Earnest Raymond,	Columbus, O.,	13 B
Hamill, Chalmers Martin,	Marshall, Ill.,	5 S R
Harvey, Penn,	Pensacola, Fla.,	15 S Ed
Harvey, Spencer Green,	Orange, N. J.,	15 W W
Haughey, John Duncan,	Bound Brook, N. J.,	39 U

Herron, Joseph Alexander, Jr.,	Monongahela, Pa.,	199 Nassau St.
Herron, William Andrew, Jr.,	Peoria, Ill.,	80 Nassau St.
Houston, William Seward,	Pittsburg, Pa.,	36 Wiggins St.
Hulbirt, Edwin Ray,	Lovelton, Pa.,	17 S M R
Hutchison, Fred Rudy,	Alexandria, Pa.,	1 N M R
Jefferson, Archie Church,	St. Paul, Minn.,	19 W W
Johnson, Reeves Kemp,	Rosemont, Pa.,	5 S W B
Jones, Howard Chapin,	Norwich, N. Y.,	9 W M W
Jones, Raymond Edgar,	Belvidere, N. J.,	7 S M R
Kain, William Frederick,	Dallas, Texas.,	•Hill
Kelly, John Hedges,	Sioux City, Ia.,	134 L
Kilgore, Richard,	Minneapolis, Minn.,	2 E M W
Kimberley, Daniel Lucius,	Neenah, Wis.,	23 M D
Lambert, Gerard Barnes,	St. Louis, Mo.,	90 Nassau St.
Latimer, Empie,	Wilmington, N. C.,	5 W W
Latimer, Herbert Russell,	Wilmington, N. C.,	5 W W
Leake, Frederic,	New York City,	3 N D
Lexow, Morton,	South Nyack, N. Y.,	31 U
Lichty, Burr George,	Waterloo, Ia.,	6 B
Lingle, Roy Petran,	Philadelphia, Pa.,	4 E B
Looms, George, Jr.,	Louisville, Ky.,	77 U
Luke, Charles Wilson,	New York City,	80 Nassau St.
McDermott, William Combs,	Elizabeth,, N. J.,	15 N M R
McKaig, Edgar Stanley,	Philadelphia, Pa.,	144 Nassau St.
Markham, Alfred Woodward,	West Plains, Mo.,	8 S W B
Marsching, Robert Lionel,	New York City,	73 U
Martin, Alexander Tertius,	Philadelphia, Pa.,	44 '79 H
Maury, Austin Gardette,	Philadelphia, Pa.,	12 B
Mount, Raymond Inslee,	East Orange, N. J.,	Hill
Neff, William Rowell,	Geneva, Ill.,	90 Nassau St.
Nichols, Corwin Clinton,	Wilmington, O.,	144 Nassau St.
Ong, Edwin Mifflin,	Pittsburg, Pa.,	9 U P
Osborne, Ralph Dodd,	West Orange, N. J.,	90 Nassau St
Parkin, Harold Clarke,	Philadelphia, Pa.,	L U
Prizer, William Mann,	Philadelphia, Pa.,	5 S R
Robinson, Frank Clement,	Clarinda, Ia.,	70 U
Runyon, Ralph Charles,	New Rochelle, N. Y.,	D U
Russel, Raymond,	Detroit, Mich.,	80 Nassau St.
Scott, Andrew Horace,	Little Rock, Ark.,	2 E B
Shafer, Dallas Armstrong,	New York City,	36 Wiggins St.
Sherman, Joseph,	Westfield, N. J.,	144 L
Shumway, Edward De Witt,	Chicago, Ill.,	42 U

Smith, Chandler Price,	Baltimore, Md.,	93 B
Smith, George Doane,	Newark, N. J.,	54 '79 H
Southworth, Frank Palmer,	Wakefield, Mass.,	199 Nassau St
Spadone, Amédée, 2d,	New York City,	144 Nassau St.
Studer, Augustus Carl, Jr.,	Montclair, N. J.,	39 U
Talbot, Benson Alvin,	Chicago, Ill.,	116 Nassau St.
Thibaut, Richard Edward, Jr.,	New York City,	33 U
Thompson, Laurance Mills,	Montclair, N. J.,	95 B
Toland, Edward Dale, Jr.,	Whitemarsh, Pa.,	1 U P
Vanderhoef, George Wyckoff, Jr.,	New York City,	3 L P
van der Voort, Joseph Nelson,	Dunkirk, N. Y.,	41 B
Van Wagenen, John Bathgate,	Newark, N. J.,	1 E W
Wadleigh, John Ransom,	Haverhill, Mass.,	2 U
Wallace, Robert Wisdom,	Chicago Heights, Ill.,	47 U
Wells, Lemuel Stewart,	New York City,	90 Nassau St.
West, William Tantum,	Camden, N. J.,	62 U
Whittemore, Theodore Browning,	Yonkers, N. Y.,	25 Edwards Pl
Wilmerding, Louis Earle,	Morristown, N. J.,	46 U
Wilson, Ralph Barker,	Pittsburg, Pa.,	97 B
Wister, Lewis Caspar,	Philadelphia, Pa.,	6 U P

CANDIDATES FOR THE C. E. DEGREE

Bishop, John V.,	Columbus, N. J.,	Hill
Bissell, George,	Cleveland, O.,	144 Nassau St.
Brokaw, De Witt Pierce,	Plainfield, N. J.,	69 U
Cappeau, Joseph Philip, Jr.,	Pittsburg, Pa.,	Hill
Case, Egbert De Forest,	Jersey City, N. J.,	2 U P
Clark, David Hatfield,	New York City,	C U
Clark, Maurice Butler,	Cleveland, O.,	8 E W
Cleveland, Harry Whitehill,	Newburgh, N. Y.,	17 W W
Colbron, Paul Townsend,	New York City,	3 W M W
Comstock, Walter Phillips,	Chicago, Ill.,	5 S D
Cornwell, George Gilbert,	Washington, D. C.,	I U
Crane, Theodore,	Pelham Manor, N. Y.,	16 U
Dale, Le Ray Eldridge,	Syracuse, N. Y.,	124 L
Davidson, William Johnston,	Connellsville, Pa.,	Hill
Dolph, Stanley Edward,	Scranton, Pa.,	110 Nassau St.
Duff, Malcolm Frederick,	Brooklyn, N. Y.,	136 Nassau St.
Elder, Robert Jarrett,	Dayton, O.,	199 Nassau St.
Fell, Frank Edward,	Trenton, N. J.,	14 S M R
Fish, Edward Charles,	Philadelphia, Pa.,	10 W M W
Frost, Robinson Victor,	Watkins, N. Y.,	2 E M W

Galey, Thomas Mellon,	Pittsburg, Pa.,	162 Nassau St.
Gensler, Donald Eugene,	Yonkers, N. Y.,	111 L
Goppoldt, Paul Rudolph,	Brooklyn, N. Y.,	11 N M R
Gray, George Augustus,	Malone, N. Y.,	2 S W
Guillaudeu, Dudley,	New York City,	3 N D
Havron, John, Jr.,	Passaic, N. J.,	39 U
Hazard, Erskine,	Richmond, Va.,	9 N D
Holmes, Harold,	Minneapolis, Minn.,	3 S E B
Horton, Walter Clark,	Peoria, Ill.,	8 S R
Hoster, Oscar William,	East Rutherford, N. J.,	6 N R
Howard, Langdon Wight,	Plainfield, N. J.,	64 U
Huston, James Alvah, Jr.,	Sewickley, Pa.,	8 S R
Lautz, Martin William,	Buffalo, N. Y.,	P U
Loomis, Earl,	Wilkes-Barre, Pa.,	61 U
McCormick, James Bernard,	Boston, Mass.,	11 E W
Mahany, David,	New York City,	90 Nassau St.
March, William Allen,	Bridgeport, Pa.,	D U
Marlin, Ralph Daniels,	Pittsburg, Pa.,	162 Nassau St.
Munoz, Jorge,	Chihuahua, Mex.,	148 Nassau St.
Parke, Nathan Grier, 2d,	Scranton, Pa.,	10 L P
Peters, Ralph, Jr.,	Garden City, N. Y.,	Hill
Phinny, Harry Brougham, Jr.,	New York City,	16 S W
Power, Harold Linden,	Indianapolis, Ind.,	16 E W
Price, John Hosie,	Scranton, Pa.,	11 S E B
Read, Charles Newman,	Pawtucket, R. I.,	1 U P
Reed, Thomas Baird,	Clementon, N. J.,	20 M D
Scully, Rees Townsend,	Pittsburg, Pa.,	1 U P
Springer, Wilbur Clark,	Salem, N. J.,	162 Nassau St.
Stephenson, Grant Thomas,	Marinette, Wis.,	24 B
Throckmorton, Alburto Martin,	Birmingham, Ala.,	6 B
Trimble, Robert, Jr.,	Glenosborne, Pa.,	40 U
Turner, Arthur Hubesty,	Plainfield, N. J.,	Hill
Warden, Kenneth Beard,	Utica, N. Y.,	88 Nassau St.

SCHOOL OF SCIENCE SOPHOMORES, . . 151

SCHOOL OF SCIENCE FRESHMAN CLASS

CANDIDATES FOR THE B.S. OR LITT.B. DEGREE

Adams, Carleton E.,	Atlantic City., N. J.,	23 William St.
Alexandre, Jerome,	Stamford, Conn.,	1 E B
Arnett, William Woodward, Jr.,	Philadelphia, Pa.,	31 Univ. Pl.

Auerbach, Oscar Meredith,	St. Paul, Minn.,	11 Park Pl.
Baker, Robert Q.,	Coshocton, O.,	82 Nassau St.
Barchfeld, Elmer Andrew,	Pittsburg, Pa.,	15 Dickinson St.
Beam, John Cooke,	Paterson, N. J.,	47 Univ. Pl.
Beckwith, Edgar William,	East Orange, N. J.,	12 Park Pl.
Belden, Perry,	Syracuse, N. Y.,	2 Upper Pyne
Berry, Allan Hall,	Tom's River, N. J.,	46 Van Deventer Av.
Blodgett, William Nelson,	Trenton, N. J.,	14 N Ed
Blun, F. Melville,	New York City,	Edwards Pl.
Boice, Arthur Dent,	Ft. Worth, Texas,	2 Nassau St.
Booth, Albert Edward,	Bradford, Pa.,	45 Univ. Pl.
Boyesen, Ralph Stewart,	Chicago, Ill.,	C, Hill
Breese, James Lawrence, Jr.,	New York City,	162 Little
Broesel, Carl Arnold,	New York City,	90 Nassau St.
Burk, Edwin Henry,	Philadelphia, Pa.,	31 Univ. Pl.
Byles, Ralph Perry,	Bradford, Pa.,	12 S W
Carpenter, Farrington Reed,	Evanston, Ill.,	2 Nassau St.
Carr, Burton James,	Springfield, Ohio,	19 Madison St.
Carver, Conrad Quimby, Jr.,	Sharon, Pa.,	4 U P
Chambers, James Wheaton,	Freehold, N. J.,	15 N M R
Chaplin, Hugh,	Ridgewood, N. J.,	47 Univ. Pl.
Chapman, Percy Addison,	Plainfield, N. J.,	47 Univ. Pl.
Cobb, Vivian J.,	Asheville, N. C.,	Murray-Dodge
Crosby, William Floyd,	San Rafael, Cal.,	20 E W
Cunningham, George Thomas,	Washington, D. C.,	64 L
Davis, Frank Rutledge,	New York City,	Edwards Pl.
Dickinson, Clinton Roy,	Newark, N. J.,	33 Edwards Pl.
Dixon, Fitz-Eugene,	Philadelphia, Pa.,	15 Univ. Pl.
Dunlop, Walter Grafton,	Washington, D. C.,	32 Wiggins St.
Easton, Mortimer Denison,	Arcola, N. J.,	15 Chambers St.
Feick, Carl Adrian, Jr.,	Newark, N. J.,	33 Edwards Pl.
Fiddler, Earle Thomas,	New Brighton, Pa.,	25 S Ed
Findley, Paul Bruce,	Sewickley, Pa.,	11 Dickinson St.
Funk, Wilfred John,	Brooklyn, N. Y.,	45 Van Deventer Av.
Gamble, Ralph Abernethy,	Yankton, S. D.,	93 B
Gay, John,	Philadelphia, Pa.,	Edwards Pl.
Hartshorne, Richard,	Newark, N. J.,	12 Park Pl.
Harvey, Herbert Marshall,	Detroit, Mich.,	3 S M R
Hattstaedt, John Robert,	Chicago, Ill.,	27 Van Deventer Av.
Hays, Samuel,	Overbrook, Pa.,	Hill
Heidrick, Frank Moore,	Brookville, Pa.,	11 M D
Hentz, Jacob Henry, 3d,	Germantown, Pa.,	32 Wiggins St.

Heyniger, Wilham Sinclair, Jr.,	Corning, N. Y.,	41 B
Holden, Clarence Lewis,	Bennington, Vt.,	111 Little
Ivins, Clinton Fox,	Plainfield, N. J.,	39 Univ. Pl.
Jamison, Ralph Eccles,	Greensburg, Pa.,	8 S E B
Kellogg, John Young,	Wyoming, N. J.,	12 Park Pl.
Kelly, Eugene Hill,	Sioux City, Iowa,	15 S W
Kimball, Harold,	Philadelphia, Pa.,	2 Nassau St.
Knauer, Clarence Edgar,	Atlantic City, N. J.,	23 William St.
Koch, Roscoe Richard,	Pottsville, Pa.,	45 Univ. Pl.
Larabie, Charles Edward,	Deer Lodge, Mont.,	2 Nassau St.
Lawrence, Wayman Clarkson, Jr.,	Columbus, Ohio,	45 Univ. Pl.
Le Fevre, Cory Alfred,	Dayton, Ohio,	35 William St.
McNeely, Charles Wilson,	Philadelphia, Pa.,	44 Van Deventer Av.
MacSherry, Solomon Hillen,	Roland Park, Md.,	53 Univ. Pl.
Markley, Lawrence,	Chicago, Ill.,	Hill
Matter, Milton,	Marion, Ind.,	1 Van Deventer Pl.
May, Edward C.,	Maywood, N. J.,	22 Ed. Pl.
Milligan, James Carothers,	Swissvale, Pa.,	90 Nassau St.
Milne, Alexander, Jr.,	White Plains, N. Y.,	37 Wiggins St.
Moore, Edwin,	Danville, Pa.,	148 Nassau St.
Morrow, Herbert Sproul,	Wilmington, Del.,	172 Nassau St.
Mosher, Orville Watson, Jr.,	New Richmond, Wis.,	15 Univ. Pl.
Murray, James Wilson,	Piqua, Ohio,	35 N Ed.
Myers, Warren Asbury,	Springfield, Ohio,	34 Van Deventer Av.
Niblack, Austin Herr,	Chicago, Ill.,	168 Nassau St.
Ober, Albert Graham, Jr.,	Lutherville, Md.,	Edwards Pl.
Olcott, Alfred Van Santvoord,	New York City,	Edwards Pl.
Page, Alanson Sumner, 2d,	Oswego, N. Y.,	53 Univ. Pl.
Peacock, Clarence Neilson,	Pittsburg, Pa.,	14 E W
Phillips, Schuyler,	Yonkers, N. Y.,	21 S Ed
Rentschler, Fred Brant,	Hamilton, Ohio,	12 W W
Robinson, Hamilton Whitney,	Yonkers, N. Y.,	22 Van Deventer Av.
Rockwell, Robert Fay,	Hornellsville, N. Y.,	47 Univ. Pl.
Rogers, Charles Henry,	New York City,	39 Univ. Pl.
Rolston, Rosewell Graves,	New York City,	19 Univ. Pl.
Selby, Edgar Cantwell,	Coshocton, Ohio,	168 Nassau St.
Selden, Henry Bill,	Greenwich, Conn.,	Edwards Pl.
Sergeant, George Rowland,	Philadelphia, Pa.,	Edwards Pl.
Sherrill, Howard Walden,	East Orange, N. J.,	O, U
Speers, Henry Bird,	Pine Bluff, Ark.,	17 Madison St.
Sprague, Carl Otto Muller,	New York City,	Edwards Pl.
Stagg, Edward, Jr.,	Leonia, N. J.,	32 Van Deventer Av.

Stokes, Joseph,	New York City,	11 Univ. Pl.
Straat, Frank Cyrus, Jr.,	New York City,	138 Nassau St.
Stryker, William Bradford,	Trenton, N. J.,	31 Univ. Pl.
Surbrug, John Willard, Jr.,	Montclair, N. J.,	34 Van Deventer Av.
Taylor, Richard Cooper,	Camden, N. J.,	Wiggins, Cor. Madison.
Tittmann, Eugene Charles, Jr.,	St. Louis, Mo.,	45 Univ. Pl.
Truax, Charles Wolff, Jr.,	Chicago, Ill.,	192 Nassau St.
Turner, Howard Griffin,	Paterson, N. J.,	47 Univ. Pl.
Turner, Horatio Whitridge,	Princeton, N. J.,	31 Nassau St.
Vaughan, John Patrick,	Scranton, Pa.,	25 M D
Verner, Alexander Wilson,	Pittsburg, Pa.,	11 Univ. Pl.
Vezin, Charles, Jr.,	Yonkers, N. Y.,	27 Univ. Pl.
Wagman, Lewis Bennett,	Saratoga Springs, N. Y.,	5 W M W
Wallace, Ralph Ward,	Chicago, Ill.,	15 Dickinson St.
Walter, Albert Gustave,	Pittsburg, Pa.,	19 Univ. Pl.
Wasserman, Lawrence,	New York City,	15 Dickinson St.
Whaley, Francis Marion,	New York City,	Hill
Wilder, Laurence Russell,	Evanston, Ill.,	53 Univ. Pl.
Wilson, Philip Danforth,	Chicago, Ill.,	27 Van Deventer Av.

CANDIDATES FOR THE C. E. DEGREE

Ackerson, Frederick C. Layton,	East Orange, N. J.,	18 Van Deventer Av.
Adams, Laurence Russell,	Chicago, Ill.,	19 Univ. Pl.
Baker, William Edgar, Jr.,	Greenwich, Conn.,	11 Dickinson St.
Beck, Edgar Russell,	Havana, Cuba,	11 U P
Black, Harry C.,	Baltimore, Md.,	Edwards Pl.
Bokum, Richard Drummond, Jr.,	Chicago, Ill.,	82 Nassau St.
Bonner, David, Jr.,	Stamford, Conn.,	15 S W
Bosworth, Sherwood Butler,	Utica, N. Y.,	33 Van Deventer Av.
Bothwell, Edward Graham,	Allegheny, Pa.,	14 Van Deventer Av.
Bradley, Mahlon Ogden,	Chicago, Ill.,	5 S D
Brush, Joshua Cooley,	New York City,	47 Univ. Pl.
Budd, Daniel Spencer,	Chester, N. J.,	3 W W
Chapman, Henry Stanley,	Pittsburg, Pa.,	15 Univ. Pl.
Chapman, John Lee,	Baltimore, Md.,	34 Van Deventer Av.
Clarke, Alexander Vinton,	Philadelphia, Pa.,	44 Van Deventer Av.
Cosgrave, Louis Dickinson,	Pittsburg, Pa.,	6 S R
Dennis, Crowell Marsh,	Princeton, N. J.,	38 Wiggins St.
Denniston, Edward Evans,	Germantown, Pa.,	15 Univ. Pl.
Dolph, Harold William,	Scranton, Pa.,	47 Univ. Pl.
Douglas, George Camp,	Paris, France,	82 Nassau St.

Drummond, John Hamilton,	New York City,	11 Univ. Pl.
Dunning, Herbert Day,	Indianapolis, Ind.,	16 E W
Earle, Francis,	Elizabeth, N. J.,	41 B
Este, Jonathan Dickinson,	Philadelphia, Pa.,	15 Univ. Pl.
Ferguson, George Orme,	Brookline, Mass.,	190 Nassau St.
Floyd, Nicoll, 2d,	Garden City, N. Y.,	33 Edwards Pl.
Fryer, George Henry,	Pottstown, Pa.,	144 L
Gordon, Stephen Robbins,	Lakeside, N. J.,	15 Univ. Pl.
Gray, Silvia Thompson,	Pittsburg, Pa.,	19 M D
Hagenbuch, Rea Isaiah,	Bloomsburg, Pa.,	44 Van Deventer Av.
Hallimond, William John,	New York City,	148 Nassau St.
Hanna, Charles Tibby,	Allegheny, Pa.,	3 Van Deventer Pl.
Hardison, Francis Baxter,	Geneva, N. Y.,	37 S Ed
Heulings, Lloyd,	Moorestown, N. J.,	27 N Ed
Hildebrant, Walter George,	New York City,	47 Univ. Pl.
Hobbie, Archibald Tait,	Newark, N. J.,	13 N W
Hoffmann, William Paul,	New York City,	15 Dickinson St.
House, Charles Lucius,	Salonica, Turkey,	19 M D
Jahn, Nicholas Firth,	Trenton, N. J.,	7 N W
Jones, George Canfield,	Youngstown, O.,	138 Nassau St.
Kelley, Eugene Cornell,	Poughkeepsie, N. Y.,	168 Nassau St.
Kiefer, Ralph Winston,	Bellevue, Pa.,	15 Univ. Pl.
Latimer, Charles Hackley,	Ashland, Wis.,	19 Univ. Pl.
Latta, William James, Jr.,	Philadelphia, Pa.,	31 Nassau St.
Leonard, Arthur Cheney,	Wayne, Pa.,	18 Van Deventer Av.
Lippincott, Jesse,	Woodstown, N. J.,	11 Univ. Pl.
Little, Alfred Aeschimann,	Brooklyn, N. Y.,	39 Univ. Pl.
McAllister, Douglas Holly,	Brooklyn, N. Y.,	148 Nassau St.
MacDonald, John Donald,	New York City,	60 Wiggins St.
McKaig, Francis Paul,	Philadelphia, Pa.,	2 Nassau St.
Matheny, Rodman Charles O.,	Springfield, Ill.,	15 Dickinson St.
Mathews, Edward Nash,	New York City,	19 Univ. Pl.
Mitchell, Robert Haldane,	Caledonia, N. Y.,	31 S Ed
Moffett, James Andrew, Jr.,	New York City,	138 Nassau St.
Moller, William George,	New York City,	90 Nassau St.
Moscrip, Lewis Scott,	Towanda, Pa.,	23 William St.
O'Brien, William Dunn,	South Norwalk, Conn.,	4 N D
Peckham, Hildreth Robert,	St. Louis, Mo.,	2 Nassau St.
Perrine, Frank Symmes,	Cranbury, N. J.,	42 Wiggins St.
Pierce, Arthur Jay,	Dundee, N. Y.,	96 Library Pl.
Reynolds, Maxwell Kennedy,	Marquette, Mich.,	47 Univ. Pl.
Rising, Simeon Marshall,	West Pawlet, Vt.,	Hill

Rosenfeld, Edward Arthur,	New York City,	90 Nassau St.
Salsbury, Joseph Morrison,	Pittsburg, Pa.,	53 Univ. Pl.
Sands, Austin Ledyard,	Newport, R. I.,	39 Van Deventer Av.
Scott, Lewis Merrill,	Princeton, N. J.,	56 Bayard Lane
Seeley, George Percy, Jr.,	Englewood, N. J.,	33 Edwards Pl.
Sensenbrenner, John Stephen,	Neenah, Wis.,	172 Nassau St.
Shaner, Charles Heller,	Boyertown, Pa.,	42 Wiggins St.
Sides, William Randolph,	Brooklyn, N. Y.,	13 N D
Slocum, Miles Standish,	Ossining, N. Y.,	18 Van Deventer Av.
Smith, Harrison Albert,	Neenah, Wis.,	172 Nassau St.
Smith, Irvin Henry,	Sewickley, Pa.,	2 Nassau St.
Smith, William Palmer, Jr.,	Netherwood, N. J.,	31 Univ. Pl.
Snakard, John Barnsdall,	Titusville, Pa.,	Hill
Stanard, Edwin,	St. Louis, Mo.,	90 Nassau St.
Stauffer, Isaac Yost,	Boyertown, Pa.,	42 Wiggins St.
Stratton, Wilder Lorenzo,	Mt.Vernon, N. Y.,	138 Nassau St.
Strong, Ludlow Potter,	Great Barrington, Mass.,	28 Van Deventer Av.
Stryker, Elmer Winfield,	Bound Brook, N. J.,	46 Van Deventer Av.
Thompson, John Sharpley, Jr.,	Baltimore, Md.,	34 Van Deventer Av.
Tibbott, Frederick Merrill,	Philadelphia, Pa.,	112 Nassau St.
Tobey, Harold,	NewYork City,	39 Van Deventer Av.
Travis, Franklin W.,	Brooklyn, N. Y.,	18 Van Deventer Av.
Vaughan, Robert,	Stamford, N. Y.,	13 N D
Wagner, Edward Luther,	Princeton, N. J.,	31 William St.
Warwick, Winfield Rogers,	Long Branch, N. J.,	138 Nassau St.
Watson, Philip Jay, Jr.,	New Castle, Pa.,	34 Wiggins St.
West, Henry,	Toledo, Ohio,	17 Madison St
Whiting, Frank Brockaway,	Neenah, Wis.,	90 Nassau St.
Wiess, Harry Carothers,	Beaumont, Tex.,	138 Nassau St.
Winn, George Philip,	Nashua, N. H.,	22 S Ed

School of Science Freshmen, ... 198

Special Students

Alden, John Percy Coleman,	Cornwall, Pa.,	48 Mercer St.
Angell, John Watson,	New York City,	8 Dickinson St.
Austin, William Mandeville,	Philadelphia, Pa.,	7 S M R
Barbee, Richard Sanders,	Indianapolis, Ind.,	1 W M W
Barton, Lyman Guy, Jr.,	Willsboro, N. Y.,	2 E W
Bartram, Howard Preston,	Newark, N. J.,	10 W B

Beggs, Joseph Dilworth,	Pittsburg, Pa.,	3 L P
Benson, Samuel Cranston,	Brooklyn, Iowa,	32 A S
Blatchford, William Wallack, Jr.,	Atlantic City, N. J.,	37 Wiggins St.
Brockmeier, Frederick John,	Freeport, Ill.,	12 S Ed
Burk, Charles August David,	Philadelphia, Pa.,	3 B
Cory, William Earle,	Midland, Mich.,	17 E W
Couse, Henry,	Hancock, N. Y.,	37 S Ed
Creighton, Edward Augustine,	Omaha, Neb.,	10 W W
Dean, John Allen, Jr.,	Owensboro, Ky.,	7 E W
Dick, Harry Kissingen,	Reading, Pa.,	32 Wiggins St.
Dickson, John Robinson,	Waco, Texas,	95 B
Dorsey, Edward Albert,	Dickeyville, Md.,	Hill
Doyle, Willis Arthur,	Trenton, N. J.,	Hill
Furrh, James Brooke,	Elysian Fields, Tex.,	4 M D
Hackett, George Dunbar,	Pittsburg, Pa.,	36 Wiggins St.
Harrison, George Alexander,	Pittsburg, Pa.,	2 U P
Haven, William LeRoy, Jr.,	Morristown, N. J.,	1 S W B
Haywood, Marshall Earl,	Lafayette, Ind.,	41 L
Higgins, Ronald,	Missoula, Mont.,	199 Nassau St.
Hoyt, Lansing Weed,	Evanston, Ill.,	161 L
Hubbell, Stewart Brooks,	Canandaigua, N. Y.,	15 L
Jack, Harry Matthews,	Bradford, Pa.,	9 S D
Jessup, Elon Huntington,	Brooklyn, N. Y.	4 W B
Johnson, Chilton Leitch,	Indianapolis, Ind.,	13 E W
Kline, Hugh Earl,	Ridgway, Pa.,	11 U
Kline, Webster Harnish,	Dayton, Ohio.,	162 Nassau St.
Kolb, Frederick William,	Baltimore, Md.,	1 N M R
Leas, Donald Stewart,	Philadelphia, Pa.,	17 U
Luce, Howard Vernor,	Lansing, Mich.,	13 N Ed
McClay, Samuel Kennedy,	Philadelphia, Pa.,	32 B
Mahn, Bertram Raymond,	Philadelphia, Pa.,	144 Nassau St.
Motter, William Calhoun,	St. Joseph, Mo.,	8 E M W
Mulry, George Wegman,	Jersey City, N. J.,	54 B
Oberndorf, Paul Ernest,	Centralia, Kans.,	9 S W B
Overton, Grant Marton,	Patchogue, N. Y.,	17 M D
Phillips, John Raymond, Jr.,	Trenton, N. J.,	M U
Potter, Albert Thomas,	Philadelphia, Pa.,	42 L
Ralli, Constantine Pandia,	New York City,	47 U
Reid, Charles Lockard,	Indianapolis, Ind.,	11 Dickinson St.
Rust, John D.,	Buffalo, N. Y.,	34 B
Ryan, Arthur,	Sunderland, Mass.,	81 B

Schussler, William Fredricks,	New York City.,	6 E M W
Shankweiler, Claude Grim,	Allentown, Pa.,	44 L
Stevens, Rolland Ezra,	Joliet, Ill.,	8 M D
Stewart, William,	White Rock, Pa.,	16 Witherspoon St.
Stoever, Edward Royal,	Germantown, Pa.,	6 U P
Van Dyke, Alexander Dean,	Princeton, N. J.,	108 Mercer St.
Veit, Russell Charles,	New York City,	71 L
Waldron, Walter Jameson,	Jackson, Mich.,	20 M D
Williams, Eliot Churchill,	Evanston, Ill.,	C E B
Wyatt, Clarence Arthur,	Wilmington, Del.,	3 S W
Zeiss, Carl Henry,	Chicago, Ill.,	10 S D

SPECIALS, ... 58

GENERAL SUMMARY

Officers of Instruction and Administration

Trustees,	27
Alumni Trustees,	5
Faculty and Instructors,	153
University Officers and Curators,	21
Fellows,	15

Students

Graduate School,		105
Academic Department		
Senior Class,	187	
Junior Class,	200	
Sophomore Class,	136	
Freshman Class,	187	
		710
John C. Green School of Science		
Electrical School,	8	
Senior Class,	75	
Junior Class,	79	
Sophomore Class,	151	
Freshman Class,	198	
Special Students,	58	
		569
Total for the year 1905–1906,		1384

SUMMARY OF STUDENTS BY STATES

Pennsylvania,	357	Kansas,	4
New Jersey,	277	Nebraska,	4
New York,	272	Oregon,	4
Illinois,	59	Florida,	3
Ohio,	45	Georgia,	3
Maryland,	45	Maine,	3
Indiana,	24	South Carolina,	3
Massachusetts,	24	Utah,	3
Kentucky,	23	Vermont,	3
Missouri,	22	Indian Territory,	2
Iowa,	20	New Hampshire,	2
District of Columbia,	17	Rhode Island,	2
Wisconsin,	16	South Dakota,	2
Connecticut,	15	Louisiana,	1
Michigan,	13	Washington,	1
Texas,	13	Wyoming,	1
Colorado,	10	British Isles,	5
Minnesota,	10	Japan,	4
Tennessee,	9	Canada,	4
Virginia,	8	Cuba,	2
Alabama,	6	Cape Colony,	1
California,	6	Ceylon,	1
Montana,	6	France,	1
North Carolina,	6	Mexico,	1
Delaware,	5	Porto Rico,	1
Mississippi,	5	Turkey,	1
West Virginia,	5		
Arkansas,	4	Total,	1384

ABBREVIATIONS

A S, Alexander Hall, Seminary.
B, Blair Hall.
B S, Brown Hall, Seminary.
E B, East Entry, David Brown Hall.
E M W, East Middle Entry, Witherspoon Hall.
E W, East Entry, Witherspoon Hall.
H S, Hodge Hall, Seminary.
L, Stafford Little Hall.
L P, Lower Pyne Building.
M D, Middle Entry, Albert B. Dod Hall.
N, Nassau Hall.
N D, North Entry, Albert B. Dod Hall.
N Ed, North Entry, Edwards Hall.
N M R, North Middle Entry, Reunion Hall.
N R, North Entry, Reunion Hall.
N W, North Entry, West College.
S D, South Entry, Albert B. Dod Hall.
S E B, South East Entry, David Brown Hall.
S Ed, South East Entry, Edwards Hall.
S M R, South Middle Entry, Reunion Hall.
S R, South Entry, Reunion Hall.
S W, South Entry, West College.
S W B, South West Entry, David Brown Hall.
U, University Hall.
U P, Upper Pyne Building.
W B, West Entry, David Brown Hall.
W M W, West Middle Entry, Witherspoon Hall.
'79 H, Seventy-nine Hall.

DIRECTORY

OF OFFICERS AND STUDENTS IN ALL DEPARTMENTS IN THE UNIVERSITY

The name of every officer is printed in SMALL CAPITALS.

The names of students are followed by the designation of their several classes (g., Graduate Student; Sr., Senior; Jr., Junior; So., Sophomore; Fr., Freshman; Sp., Special Student; 2, second year; 1, first year); the name of each student is followed also by an abbreviation indicating the Department to which he belongs, viz., *a.*, Academic Department; *s.*, The John C. Green School of Science; *e.*, The School of Electrical Engineering.

The abbreviations of the residences of officers and students are found on the preceding page.

Abbey, H., Jr., *So. a* 148 Nassau St.
Abbott, A. H., *Sr. a* 22 B
Abernethy, G. G., *Jr. a* 68 L
Ackerson, F. C. L., *Fr. s* 18 Van Deventer Av.
Adams, A. L., *Jr. a* 81 B
Adams, C. E., *Fr. s* 23 William St.
Adams, C. H., *Sr. a* 142 L
ADAMS, E. P., *Instructor,* The Bachelors
Adams, L. R., *Fr. s* 19 Univ. Pl.
Adams, W. T., Jr., *So. s* 14 S D
Albro, P. M., *Jr. a* 1 B
Alden, J. P. C., *Sp.* 48 Mercer St.
ALEXANDER, C. B., *Trustee,* New York City
Alexander, H. V., *Jr. s* 4 E M W
Alexander, J. A. McM., *Sr. a* 75, 76 U
Alexander, J. P., *Jr. a* 76 U H
ALEXANDER, J. W., *Trustee,* New York City
Alexandre, J., *Fr. s* 1 E B
Allen, C. E., *g* 27 A S
Allen, F. B., *g* 66 B S
ALLEN, H. F., *Professor,* 34 Bank St.
Allen, M., *So. s* 79 U
Alling, F. A., *Jr. a* 7 M D
Allis, O. T., *g* 29 A S
Allison, R. M., *g* 80 Alexander St.
Ambrose, C. A., *Sr. a* 3 S D
Ambrose, H. W., *Sr. a* 3 S D
Anders, M. H., *Jr. a* 7 E B
Anders, W. H., Jr., *Sr. a* 3 S W
ANDERSON, A. R., *Preceptor,* 11 Alexander St.
Anderson, G. R., *g* 317 H S
Anderson, J. B., *Sr. a* 52 '79 H
Andrews, E. R., *So. a* 40 Wiggins St.
Andrews, L. A., *Fr. a* Van Deventer Pl.
Angell, J. W., *Sp.* 8 Dickinson St.
Angus, S., *g* 14 A S
Ankeney, F. N., *Fr. a* 34 Van Deventer Av.
Annon, R. E., Jr., *Fr. a* 8 S W
Appel, F. G., *Jr. a* 72 B
Archer, G., *Sr. a* 19 S Ed

Archibald, J., *Fr. a* 92 Stockton St.
Armour, N., *Fr. a* 12 U P
Arms, J. T., Jr., *Fr. a* 39 Van Deventer Av.
Armstrong, G. A., *Fr. a* 33 Edwards Pl.
Armstrong, O. V., *g* 402 H S
Armstrong, W., *Sr. a* 11 N W
Armstrong, W. M., *Jr. s* 112 L
Arnett, W. W., Jr., *Fr. s* 31 Univ. Pl.
Atherton, T. H., Jr., *Sr. a* 84 B
Atlee, S., 2d, *So. s* 11 W B
Auerbach, O. M., *Fr. s* 11 Park Pl.
AUSTIN, H. D., *Instructor*, 33 B
Austin, W. M., *Sp.* 7 S M R
Averill, W. McF., *So. s* 7 S R
AXSON, S., *Professor*, 10 Nassau St.

Bacon, W. H., Jr., *So. a* 88 Nassau St.
Baer, W. B., *Fr. a* 45 Van Deventer Av.
Baiter, C. W. G., *Sr. s* 32 B
Baker, A. T., *Sr. a* 31 B
Baker, E. W., *So. a* 74 U
Baker, R. Q., *Fr. s* 82 Nassau St.
Baker, W. E., Jr., *Fr. s* 11 Dickinson St.
Ballin, D. D., *Fr. a* 47 Univ. Pl.
Balmer, J. P., *Sr. a* 82 Nassau St.
Bane, W. M., *So. s* Hill
Bangs, W. D., *Jr. a* 11 E B
Banning, E., Jr., *So. a* 2 S W B
Bannwart, A. W., *Sr. a* 131 L
Barbee, R. S., *Sp.* 1 W M W
Barchfeld, E. A., *Fr. s* 15 Dickinson St.
Bard, R. A., *Sr. s* 5 W B
Barler, H. A., *So. s* 134 L
Barnes, H. H., *Jr. s* 12 M D
Barnes, K. B., *Sr. a* 19 S W
Barr, R. I., *Sr. a* 71 B
Barrett, H. C., *So. a* 181 L
Barrows, D. H., *Jr. a* 18 M D
Barrows, W. L., *Jr. a* 121 L
Barry, R. A., *Sr. s* 6 N W
Bartholomew, M. C., *Jr. a* 15 N D
Barton, L. G., Jr., *Sp.* 2 E W
Bartram, H. P., *Sp.* 10 W B
Baskerville, H. C., *Jr. a* 18 S Ed
BASORE, J. W., *Preceptor*, 26 Bank St.
Beall, L. E., Jr., *So. a* 111 L
Beam, J. C., *Fr. s* 47 Univ. Pl.
BEAM, J. N., *Instructor*, 13 L
Bean, J. W., *g* 213 H S
Beatty, F. E., *g* 404 H S
Beaty, J. B., *Sr. a* 1 W B
Beck, E. R., *Fr. s* 11 U P
Beckwith, E. W., *Fr. s* 12 Park Pl.
Bedinger, J. Van D., *Jr. s* 6 W M W
Beers, A. D., *Jr. a* 11 S D
Beggs, J. D., *Sp.* 3 L P
Belden, P., *Fr. s* 2 U P
Belding, F. N., *Fr. a* 16 Van Deventer Av.
Bell, D. W., *Sr. a* 14 S W
Bell, J. A., Jr., *So. a* A, B
Bell, J. S., *Jr. a* 3 S W B
Benedict, H. W., *Fr. a* 63 Wiggins St.
Benjamin, J. E., *So. a* 5 M D
Bennett, H., *Jr. s* 19 Madison St.
Benson, S. C., *Sp.* 32 A S
Bergland, W. S., *So. s* 7 U
Berry, A. H., *Fr. s* 46 Van Deventer Av.
Berry, F. A., *Sr. a* 11 N W
Berry, W. R., *Fr. a* 8 U P
Betts, A. D., *g* 29 B S
Bickford, W. F., Jr., *Fr. a* 31 N Ed
BINGHAM, H., *Preceptor*, 66 Washington Road
Bird, S. H., *Sr. a* 13 '79 H
Bishop, J. V., *So. s* Hill
Bissell, G., *So. s* 144 Nassau St.
Bixby, E. W., *Jr. a* 161 L
Black, A. L., Jr., *Sr. a* 131 L
Black, H. C., *Fr. s* Edw. Pl.
BLAIR, D. C., *Trustee*, Belvidere, N. J.
Blatchford, W. W., Jr., *Sp.* 37 Wiggins St.
BLAU, M. F., *Ass't Professor*, 27 Bank St.
BLISS, G. A., *Preceptor*, 11 Alexander St.
Bliss, H. F., *Sr. a* 9 M D

Blodgett, W. N., *Fr. s* 14 N Ed
Blun, F. M., *Fr. s* Edw. Pl.
Boas, H. A., *Fr. a* D, Hill
Bockoven, F. H., *So. s* 3 W W
BOGART, E. L., *Preceptor*, 11 Bank St.
Boice, A. D., *Fr. s* 2 Nassau St.
Bokum, N. H., *Sr. s* 5 W B
Bokum, R. D., Jr., *Fr. s* 82 Nassau St.
Bond, A. McK., *Jr. a* 73 B
Bonner, D., Jr., *Fr. s* 15 S W
Booker, L. H., *Fr. a* 32 Van Deventer Av.
Booth, A. E., *Fr. s* 45 Univ. Pl.
Bosworth, S. B., *Fr. s* 33 Van Deventer Av.
Bothwell, E. G., *Fr. s* 14 Van Deventer Av.
Bovard, C. E., *g* 105 H S
Boyesen, R. S., *Fr. s* C, Hill
Boynton, F. L., *So. a* 11 S D
BRACKETT, C. F., *Professor*, 4 Prospect Av.
Braddock, W. H., *So. a* 10 M D
Bradford, E. W., *Sr. a* 19 S W
Bradley, J. A., *Sr. a* 2 S E B
Bradley, M. O., *Fr. s* 5 S D
Bradley, W., *Jr. s* 7 S R
Brady, S. S., *Fr. a* 19 Univ. Pl
Brakeley, G. A., *Jr. a* 141 L
Brandon, J. C., *Sr. a* 9 E B
Brank, R. S., *g* 31 A S
Brasher, P. M., *Sr. s* 1 N W
Breckinridge, H. S., *Jr. a* 41 L
Breese, J. L., Jr., *Fr. s* 162 L
Brennan, E. A., *So. a* 14 N W
Brockmeier, F. J., *Sp.* 12 S Ed.
Broesel, C. A., *Fr. s* 90 Nassau St.
Broesel, H., Jr., *So. s* 90 Nassau St.
Brokaw, DeW. P., *So. s* 69 U
Brokaw, R. W., *2 e* 4 S W
Brook, C., *So. a* Ewing St.
Brooke, F. M., *Sr. s* 16 M D
Brooks, J. N., *Sr. a* 52 L
Brooks, W. M., *Jr. s* 7 S R
Brower, C. deH., Jr., *1 e* 2 L P
Brown, B. W., *Sr. a* 62 B
Brown, C. P., *Sr. a* 16 M D
Brown, E. L., *Sr. s* 4 L P
Brown, G. M., *So. s* 42 U
Brown, H., *Sr. a* 8 E B
Brown, J. B., 38 A S
Brown, L. H., *Jr. a* 23 B
Brown, R. M., *Jr. a* 41 '79 H
Brownback, O. D., *g* 305 H S
Brownell, R. C., *Jr. a* 7 E B
Bruce, A. C., *Fr. a* 73 Stockton St.
Bruce, J. M. H., *So. a* 7 U
Brunswick, W., *Sr. s* 10 S M R
Brush, J. C., *Fr. s* 47 Univ. Pl.
Buchanan, J. G., *Fr. a* 46 Van Deventer Av.
Budd, D. S., *Fr. s* 3 W W
BUFFUM, D. L., *Preceptor*, 151 L
Bullitt, J. C., *Fr. a* 15 Univ. Pl.
Bunn, B. F., *Jr. a* 121 L
BUNN, H. C., *Curator*, Univ. Offices
Bunting, A. R., *Fr. a* Hill
Burk, C. A. D., *Sp.* 3 B
Burk, E. H., *Fr. s* 31 Univ. Pl.
Burkhart, J. P., *Jr. a* 5 N Ed.
Burnett, C. H., *Fr. a* 39 Univ. Pl.
Burton, G. L., *Sr. a* 66 L
Butler, E. F., *Sr. a* 31 B
BUTLER, H. C., *Professor*, Merwick
Butler, L. L., *So. a* 168 Nassau St.
Butler, W. A., 3d, *Fr. a* 11 Dickinson St.
Byles, R. P., *Fr. s* 12 S W
Byram, H. F., *Sr. s* 74 B

CADWALADER, J. L., *Trustee*, New York City
Caldwell, H. S., *Fr. a* 2 Nassau St.
Calverly, E. E., *Sr. a* 1 N D
CAMERON, D., *Preceptor*, 27 William St.
CAMERON, H. C., *Professor*, 34 Mercer St.
Cameron, M. K., *So. a* 11 S M R
Cameron, W. R., *Fr. a* 12 Van Deventer Av.
Camp, W. H., *Jr. s* 9 E M W
Campbell, E. I., *g* 302 H S
Cappeau, J. P., Jr., *So. s* Hill
Carber, F. H., *So. a* U, U
Carey, C. D., *So. a* 20 S Ed.
Carey, E. S., *g* 32 B S
Carothers, S., *Sr. s* 43 L
Carpenter, F. R., *Fr. s* 2 Nassau St.

Carr, B. J., *Fr. s* 19 Madison St.
Carroll, N. F., *Fr. a* 8 S W
Carson, J. R., *Jr. s* Hill
Carson, R., *Jr. s* Hill
CARTER, J. B., *Professor*, Abroad
Carver, C. Q., Jr., *Fr. s* 4 U P
Carver, W. H., *Fr. a* 37 Wiggins St.
Case, E. DeF., *So. s* 2 U P
Caskey, R. E., *Sr. a* 1 N D
Cass, N. R., *Fr. a* 54 B
Catlin, R., *So. a* 45 U
Cecil, S. R., *Sr. a* 7 W M W
Chalmers, A. R., *So. a* F, U
Chamberlain, B. F., *Sr. a* 2 S E B
Chamberlain, F. G., *Jr. a* 90 Nassau St.
Chambers, B. B., *Fr. a* 34 '79 H
Chambers, J. W., *Fr. s* 15 N M R
Champlin, C. D., *So. s* 144 Nassau St.
Chaplin, H., *Fr. s* 49 Univ. Pl.
Chapman, H. S., *Fr. s* 15 Univ. Pl.
Chapman, J. L., *Fr. s* 34 Van Deventer Av.
Chapman, P. A., *Fr. s* 47 Univ. Pl.
Chapman, R. B., *Jr. a* 98 B
Chew, P. F., *Jr. a* 7 N D
Childs, A. E., *Jr. a* 161 L
Chisholm, C. S., *Fr. a* 98 Mercer St.
Chislett, J. R., *Jr. a* 6 S W B
Christie, R. D., *So. a* 14 M D
Cist, C. F., *Fr. a* 41 Univ. Pl.
Clark, C. B., *Jr. a* 8 W W
Clark, D. H., *So. s* C, U
Clark, H. N., *Jr. s* 9 S W
Clark, J. H., Jr., *Fr. a* 6 S W
Clark, M. B., *So. s* 8 E W
Clark, T. S., *So. a* 1 S M R
Clark, W., Jr., *So. s* 44 '79 H
Clark, W. A., *2 e* 6 S W
Clark, W. M., *g* 27 A S
Clarke, A. V., *Fr. s* 44 Van Deventer Av.
Clarke, D., Jr., *g* Murray-Dodge H
CLEMONS, W. H., *Instructor*, 33 B
CLEVELAND, G., *Trustee*, 58 Bayard Lane
Cleveland, H. W., *So. s* 17 W W
Cline, E. L., *Sr. a* 33 L
Clothier, R. C., *So. s* 17 U
Coale, S. T., *Jr. a* 2 S W
Coan, H. M., *Jr. a* 20 N W
Cobb, V. J., *Fr. s* Murray-Dodge H
Cochran, G. I., *Sr. a* 185 L
Cochran, M. G., *Jr. s* 6 S W B
Cohen, A. H., *So. a* 25 N. Ed.
Colborn, A. J., *Fr. a* 3 Van Deventer Pl.
Colbron, P. T., *So. s* 3 W M W
COLLINS, V. L., *Librarian*, 31 Bank St.
Colvin, W. H., *So. s* 61 B
Comstock, W. P., *So. s* 5 S D
Conde, L. H., *Sr. a* 33 L
Condit, F. H., *Jr. s* 5 S W
CONEY, J. H., *Professor*, 78 Alexander St.
Conger, A. McC., *Fr. a* "Morven"
Conger, R. S., *Fr. a* 18 N Ed.
Connell, P. G., *Sr. s* 4 W M W
Connett, F. S., *Fr. a* 31 Univ. Pl.
Connolly, H. J., *Sr. a* 5 N R
Connors, W. B., *So. s* 61 B
Conver, S. D., *Jr. a* 13 N M R
Conwell, G. M., *g* 9 S M R
Cooder, C. M., *Jr. a* 6 M D
Cook, F. R., *So. s* 11 E W
Cook, J. A., *Fr. a* E, E B
Cook, R. B., *Jr. s* 183 L
Cooke, F. W., Jr., *Jr. s* 2 M D
Cooney, J. L., *Jr. a* 3 S Ed.
Coons, J. C., *So. a* 3 S R
Cooper, J. C., Jr., *Fr. a* 32 Wiggins St.
Corkran, B. W, *Jr. a* 23 B
CORNWALL, H. B., *Professor*, 12 Morven St.
Cornwell, G. G., *So. s* I, U
CORWIN, E. S., *Preceptor*, 10 Nassau St.
Cory, L., *Jr. a* 17 E W
Cory, W. E., *Sp.* 17 E W
Cosgrave, L. D., *Fr. s* 6 S R
Cossitt, F. H., *Sr. a* 52 '79 H
Couse, H., *Sp.* 37 S Ed.
COVINGTON, H. F., *Ass't Professor*, 34 Edgehill St.
Coxe, C. S., *Fr. a* 15 Univ. Pl.
Coxe, M., *Sr. a* 7 N R
Cowan, J. D., *So. s* 47 U

Coyle, D. C., *So. a* 5 S Ed.
Coyle, I. D., *Sr. a* 7 S W
Coyle, R. F., *Jr. s* 5 S W B
CRAIG, H., *Preceptor*, 34 L
Crane, T., *So. s* 16 U
Cranmer, G. E., *Jr. a* 73 B
Crary, D., *Jr. s* 23 L
CRAVEN, E. R., *Trustee*, Philadelphia, Pa.
Craven, T. S., *Fr. a* 5 S M R
Crawford, S. L., *So. s* 14 B
Creighton, E. A., *Sp.* 10 W W
Creighton, J. H., *Jr. s* 4 E M W
Cresse, G. H., *Sr. a* 10 N M R
CRITCHLOW, F. L., *Preceptor*, 8 N W
CROLL, M. W., *Instructor*, 17 Alexander St.
Crosby, W. F., *Fr. s* 20 E W
Cross, J. F., Jr., *Sr. s* 171 L
Cummings, H. M., *Jr. a* 10 N W
Cummings, L. C., *So. a* 70 U
Cunningham, F. W., *Jr. s* 12 S W
Cunningham, G. S., *Sr. a* 133 L
Cunningham, G. T., *Fr. s* 64 L
Cunningham, J. H., *Jr. a* 141 L
Cunningham, W. W., *Sr. a* 21 Boudinot St.
Curtis, F. L., *Fr. a* 52 Univ. Pl.
Cutler, W. W., Jr., *Sr. s* 7 W W
CUYLER, C. C., *Trustee*, New York City

Dages, O. N., *Sr. a* 14 L
Daggette, W. M. C., *Jr. a* 2 W B
DAHLGREN, U., *Ass't Professor*, 7 Evelyn Pl.
Dailey, C. N., *Sr. a* 182 L
Dain, N., *Jr. s* 23 M D
Dale, LeR. E., *So. s* 124 L
Daniel, Z., *So. s* 7 S Ed.
DANIELS, W. M., *Professor*, 210 Mercer St.
Darlington, H. B., *Sr. s* 182 L
Daub, W. H., *Jr. s* 112 L
Davey, W. O., *So. a* I, U
Davidson, W. J., *So. s* Hill
Davies, H. D., *g* 208 H S
Davis, C. S., *So. a* 4 M D
Davis, D. M., *Jr. s* 54 L
Davis, F. F., *Jr. s* 112 L
Davis, F. R., *Fr. s* Edw. Pl.
DAVIS, J. D., *Trustee*, St. Louis, Mo.
Davis, J. E., *Sr. a* 5 N R
Davis, J. H., *Jr. s* 12 B
Davis, O. L., *So. s* 62 U
Davis, R. H., *Jr. a* 16 W W
Davis, S. R., *Jr. s* 23 M D
Davison, W. S., *Sr. a* 12 W B
DAVISSON, C. J., *Instructor*, 5 Nassau St.
Dawbarn, W. L., *Fr. a* D, Hill
Dean, J. A., Jr., *Sp.* 7 E W
Deems, C. P., *Jr. a* 92 B
Dempster, A. A., *Jr. a* 10 N D
Dennis, C. M., *Fr. s* 38 Wiggins St.
Denniston, E. E., *Fr. s* 15 Univ. Pl.
De Turck, J., *Sr. a* 20 S W
DEWITT, J., *Trustee*, 31 Library Pl.
Dick, H. K., *Sp.* 32 Wiggins St.
Dick, J. J., *Fr. a* 11 U P
Dickinson, C. R., *Fr. s* 33 Edw. Pl.
Dickson, J. R., *Sp.* 95 B
Dietrich, H. E., *Fr. a* 192 Nassau St.
Dillon, E. A., *Fr. a* 6 N R
Dillon, H. L., *Jr. a* 35 U
Dixon, F., *Fr. s* 15 Univ. Pl.
DIXON, J., *Trustee*, Trenton, N. J.
Doane, R. E., *Sr. s* 6 W W
DOD, S. B., *Trustee*, Hoboken, N. J.
Dodd, E. M., *Fr. a* 14 Park Pl.
Dodge, B., *Fr. a* 15 L P
Dodge, C. E., *Fr. a* 15 L P
DODGE, C. H., *Trustee*, New York City.
Dolph, H. W., *Fr. s* 47 Univ. Pl.
Dolph, S. E., *So. s* 110 Nassau St.
Donovan, H. J., *So. a* 39 U
Dorman, R. A., *Sr. a* 7 U P
Dorsey, E. A., *Sp.* Hill
Dougherty, E. V., Jr., *Fr. a* Edw. Pl.
Douglas, G. C., *Fr. s* 24 L
Douglas, L., *Sr. a* 64 '79 H
Douglas, R., Jr., *Sr. a* 2 B
Dowd, H. L., *Fr. a* 41 Univ. Pl.
Doyle, D. B., *g* 4 S Ed.
Doyle, L. J., *Jr. s* 32 B
Doyle, W. A., *Sp.* Hill

Drake, R. W., *Sr. a* 36 L
Draper, R. A., *Jr. a* 124 L
Drayton, E. M., *So. s* 6 U P
Drewes, H., *Fr. a* 4 S M R
Driver, C. W., *Fr. a* 5 S M R
Drummond, J. H., *Fr. s* 11 Univ. Pl.
Duff, G. M., *Jr. a* 23 L
Duff, M. F., *So. s* 136 Nassau St.
DUFFIELD, H. G., *Treasurer*, University Offices.
DUGAN, R. S., *Instructor*, 10 Madison St.
Dulles, J. F., *So. a* 163 L
Dunham, C. T., *So. a* 1 W W
Dunlop, W. G., *Fr. s* 32 Wiggins St.
Dunn, C. W., *Jr. a* 27 M D
Dunn, W. P., *So. a* 123 L
Dunning, H. D., *Fr. s* 16 E W
Durell, T. J., *Jr. a* 23 '79 H
Durham, D. B., *g* 8 S Ed.
Durham, F. S., *Sr. a* 9 S E B
Durham, J. E., Jr., *Sr. a* 9 S E B
Durstine, R. S., *So. a* Hill
DUSHACK, L. H., *Assistant*, 17 S Ed.
Dutcher, B., *Jr. a* 80 Nassau St.
Dutcher, O., *Jr. s* 19 Madison St.
Duvall, R. G., *Sr. a* 112 Nassau St.

Eames, C. M., *g* 46 A S
Earle, F., *Fr. s* 41 B
Easton, M. D., *Fr. s* 15 Chambers St.
Ebert, St. G., *So. s* 15 U
Eckels, A. R., *g* 215 H S
Edwards, D., *Sr. a* 7 N R
Edwards, H. S., *Sr. s* 80 Nassau St.
Eells, J. D., *Sr. a* 131 L
Ehrehart, C. F., *Fr. a* 138 Nassau St.
Eisele, J. L., *Jr. a* 7 U P
EISENHART, L. P., *Preceptor*, 63 L
Elder, R. J., *So. s* 199 Nassau St.
ELLIOTT, E. G., *Preceptor*, 11 S W B
Elliott, H. W., *So. a* 30 U
Elliott, N. J., *g* 26 A S
Elsing, W., *So. a* 31 '79 H
Elwood, V. N., *So. a* 4 S D
Ely, J. M., *Sr. a* 5 W M W
Eppley, M., *Sr. s* 7 L P
Este, J. D., *Fr. s* 15 Univ. Pl.
Etherington, S. G., *Sr. s* 80 Nassau St.
Euwer, W. C., *Jr. a* 6 E M W
Evans, J. W., *Jr. a* 4 N W
EWING, N., *Trustee*, Uniontown, Pa.
Ewing, N., Jr., *Fr. a* Edw. Pl.

Fager, P., *Jr. s* 5 E B
Failey, R. B., *So. s* 110 Nassau St.
Fairing, R. P., *Sr. a* 5 W M W
Farley, J. G., Jr., *So. a* 7 S E B
Farr, J., Jr., *Fr. a* 53 U P
FARR, M. S., *Preceptor*, 12 Maple St.
Farr, T. H. P., Jr., *Jr. a* 11 L P
Farrell, F. I., *Jr. a* 5 S W
Feick, C. A., Jr., *Fr. s* 33 Edw. Pl.
Fell, F. E., *So. s* 14 S M R
Fellstrom, A. A., *g* 415 H S
Fender, R. C., *So. s* 73 U
Fenninger, L., *Fr. a* 4 S M R
Ferguson, G. O., *Fr. s* 190 Nassau St.
Ferguson, J. B., *g* 408 H S
Fickes, G. H., *g* 403 H S
Fiddler, E. T., *Fr. s* 25 S Ed.
Field, L. B., *g* 40 B S
Findley, P. B., *Fr. s* 11 Dickinson St.
FINE, H. B., *Dean of the Faculty*, Dean's House
FINE, J. B., *Director*, Princeton Prep. School
Finney, J. C., *g* 22 A S
Finney, W. P., Jr., *So. a* 9 N M R
Fish, E. C., *So. s* 10 W M W
Fish, H. D., *Sr. a* 123 L
Flagg, H. H., *Sr. s* 52 B
Fleming, S. W., Jr., *Sr. a* 84 B
Flory, G. G., *So. s* 14 B
Floyd, N., 2d, *Fr. s* 33 Edw. Pl.
Fluhart, T. LaM., *So. s* 14 B
FOGEL, P. H., *Instructor*, 6 S M R
Forbes, G., *1 e* Merwick
Forsyth, R. W., Jr., *So. s* 36 Wiggins St.
Forsythe, J., *g* 14 A S

Fosdick, R. B., *g* Merwick
FOSTER, W., *Ass't Professor*, 16 Bank St.
Foster, W. E., *So. a* M, U
Fowler, A. B., *Jr. a* 9 N Ed.
Fowler, A. K., Jr., *Sr. a* 9 E B
Fowler, H. E., *So. a* 1 B
Fox, D. F., *g* Princeton Prep. School
Fox, N. K., *Fr. a* 64 L
Franklin, W. H., *Sr. a* 9 E B
FRAZER, D. R., *Trustee*, Newark, N. J.
Freeman, J. E., *Jr. s* 92 B
Freeman, R. G., *g* 34 A S
Freeman, W. C., *Sr. a* 10 U P
Freese, A., *Fr. a* 42 N Ed.
French, C. H., *So. a* 13 S W
Froelick, L. D., *Sr. a* 31 L
Frontz, W. A., *Jr. a* 32 L
Frost, R. V., *So. s* 2 E M W
Fruit, F. T., *So. a* 9, 10 U
Fry, M. H., *Fr. a* 8 Dickinson St.
Fryer, G. H., *Fr. s* 144 L
Funk, E. D., *Jr. a* 20 S W
Funk, W. J., *Fr. s* 45 Van Deventer Av.
Furman, B. A., *Sr. a* 12 W B
Furrh, J. B., *Sp.* 4 M D

Galbreath, J. A., *Jr. s* 21 B
Galey, T. M., *So. s* 162 Nassau St.
Gallaher, S. M., *So. s* 8 S M R
Gamble, R. A., *Fr. s* 93 B
GARFIELD, H. A., *Professor*, 49 Library Pl.
Garretson, J., *Jr. a* 15 S D
GARRETT, R., *Trustee*, Baltimore, Md.
Garrett, W. O., *g* C, B S
GAUSS, C., *Preceptor*, 22 Alexander St.
Gay, J., *Fr. s* Edw. Pl.
Gee, H. J., *Jr. a* 26 M D
Gehrken, J. H., *Jr. s* 7 S D
Gensler, D. E., *So. s* 111 L
George, L. B., *So. s* 3 L P
George, R. M., *Jr. s* 14 S W
Gerhard, E. A., *Sr. a* 8 E M W
GEROULD, G. H., *Preceptor*, 32 Mercer St.
Geyer, B. W., *Jr. s* 10 N D
Gibbens, C. B., *Jr. s* 184 L
Gibbons, H. A., *g* 306 H S
Gibson, B. H., *Sr. s* 6 E B
Gill, J. H., *Fr. a* 2 Hill
Gill, J. L., *g* Merwick
Gill, W. A., *So. a* 12 S E B
Gillespie, T. J., Jr., *Fr. a* 53 Univ. Pl.
GILLESPIE, W., *Preceptor*, 10 Nassau St.
Gilmore, J., *Sr. a* 5 N M R
Gilmour, H. C., *So. a* 181 L
Gilpin, D. N., *Fr. a* 32 Wiggins St.
Gilson, S. L., *So. a* 6 N M R
Glaser, W. C. D., *Fr. a* L, Hill
Glass, F. P., *Jr. a* 66 L
Glass, J. P., *So. a* 14 S D
Glenn, R. C., *So. a* 14 N W
Glover, S. R., *Fr. a* 1 S Ed.
Goas, H. J., *Sr. a* 13 S D
Goas, H. L., *So. a* 14 N M R
Goas, H. Z., *Jr. a* 14 N M R
Goodman, K. S., *Sr. a* 86 Nassau St.
Goodrich, L., *Sr. s* 153 L
Goodwin, F. L., *Jr. a* 15 S D
Goppoldt, P. R., *So. s* 11 N M R
Gopsill, J. W., *Sr. a* 17 S W
Gordon, J. G., Jr., *Jr. a* 132 L
Gordon, S., *Fr. a* 31 Univ. Pl.
Gordon, S. R., *Fr. s* 15 Univ. Pl.
Gordon, W. S., Jr., *Jr. s* 143 L
Graff, P., *Fr. a* 23 William St.
Grandin, G. M., *So. s* 45 U
Grau, W. H. F., *So. a* H, U
Gray, G. A., *So. s* 2 S W
Gray, S. T., *Fr. s* 19 M D
Green, C. S., *So. a* 3 E W
Green, D. P., *Fr. a* 19 Madison St.
Green, E. F., *Fr. a* 27 M D
Green, G. F., *Jr. a* 51 L
GREEN, H. W., *Trustee*, Trenton, N. J.
Green, J. C., *So. a* 10 E W
Greene, C. J., *So. a* 63 B
Greene, C. W., *Sr. a* 15 N D
Greenland, H. B., *Sr. s* 52 L
GREENWOOD, J. R., *Instructor*, 4 N Ed.
Gregory, F. A., *So. s* 110 Nassau St.
Greski, T., *Jr. a* 10 W M W
GRIFFIN, N. E., *Preceptor*, 14 N D

Griscom, W. M., Jr., *Jr. a* 37 Wiggins St.
Groeneveld, J. A., *Fr. a* 11 S Ed.
Guillaudeu, D., *So. s* 3 N D
Gwynn, E. J., *g* 1 B S

Hackett, G. D., *Sp.* 36 Wiggins St.
Hackman, W. W., *Fr. a* 1 N Ed.
Hagan, H., *Jr. a* F, W B
Hagenbuch, R. I., *Fr. s* 44 Van Deventer Av.
Haight, H. W., *Jr. a* 21 M D
Hale, P. M., *Sr. s* 53 '79 H
Haley, R. J., *So. a* 10 W W
Halliday, E. R., *So. s* 13 B
Hallimond, W. J., *Fr. s* 148 Nassau St.
Halsey, E. C., Jr., *Jr. a* 16 W W
Halsted, D., *Jr. a* 24 '79 H
Hamill, C. M., *So. s* 5 S R
Hamilton, S., *Sr. a* 133 L
Hamilton, T. P., *Sr. a* 6 W B
Hammack, D. S., *Sr. a* 115 H S
Handy, D. M., *So. a* 5 M D
Haney, H. S., *Jr. a* 16 S M R
Hanna, C. T., *Fr. s* 3 Van Deventer Pl.
Hansl, R. H., *Jr. a* 3 E B
Hardison, F. B., *Fr. s* 37 S Ed.
Hardman, C. B., *g* 43 U
Hardy, E. C., *Sr. s* 7 B
Harlan, E. H. W., *So. a* 8 S M R
HARPER, G. M., *Professor*, 36 Mercer St.
Harrer, G. A., Jr., *Fr. a* 31 William St.
Harris, A., *Sr. a* 19 S M R
Harris, F. M., *Jr. s* 19 Madison St.
HARRIS, W. B., *Professor*, 280 Nassau St.
Harrison, G. A., *Sp.* 2 U P
Harrison, J. W., *So. a* 30 U
Hart, J. F., *Jr. a* 10 W M W
Hartshorne, R., *Fr. s* 12 Park Pl.
Harvey, H. M., *Fr. s* 3 S M R
Harvey, P., *So. s* 15 S Ed.
Harvey, S. G., *So. s* 15 W W
Hasbrouck, B., *Jr. s* 21 B
Haskell, F. K., *Sr. s* 4 W M W
HASTINGS, H. R., *Preceptor*, 11 Alexander St.
Hattori, B., *g* 2 N Ed.
Hattstaedt, J. R., *Fr. s* 27 Van Deventer Av.
Haughey, J. D., *So. s* 39 U
Haulenbeck, J. W., *So. a* 95 B
Haven, W. LeR., *Sp.* 1 S W B
Havron, J., Jr., *So. s* 39 U
Hawes, E. P., *So. a* 14 M D
Hay, W. W., *Sr. a* 5 N W
Hayes, L. N., *g* 408 H S
Hayes, M. C., *Sr. s* 72 L
Hays, S., *Fr. s* Hill
Haywood, M. E., *Sp.* 41 L
Hazard, E., *So. s* 9 N D
Hazard, W., *Sr. s* 3 W B
Heagey, F. W., *So. a* 9 W M W
Hegeman, R. F., *Sr. a* 15 B
Heidrick, F. M., *Fr. s* 11 M D
Hemphill, W. L., *g* 17 B S
Henderson, G., *Fr. a* 33 Edwards Pl.
Hendrickson, J. A., *Jr. a* 14 W W
Henricks, W. A., *Jr. a* 9 S Ed.
HENRY, B., *Trustee*, Philadelphia, Pa.
Henry, A., Jr., *Jr. s* 184 L
HENRY, J. A., *Trustee*, Philadelphia, Pa.
Henry, T. C., *Fr. a* 15 Univ. Pl.
Hentz, J. H., 3d, *Fr. s* 32 Wiggins St.
Herold, H. C. H., Jr., *Jr. a* 6 E W
Herrick, H. T., *Jr. a* 10 M D
Herring, D. G., *Jr. a* 8 S W B
Herron, J. A., Jr., *So. s* 199 Nassau St.
Herron, W. A., Jr., *So. s* 80 Nassau St.
Hetzel, W. B., *Fr. a* 53 Univ. Pl.
Heulings, L., *Fr. s* 27 N Ed.
Hewitt, J. F., *Jr. a* 132 L
Heyniger, W. S., Jr., *Fr. s* 41 B
HIBBEN, J. G., *Professor*, 62 Washington Road
Higbie, H. S., *Sr. s* 36 L
Higgins, R., *Sp.* 199 Nassau St.
Hildebrant, W. G., *Fr. s* 47 Univ. Pl.
Hildreth, W. W., *Sr. a* 6 W B
Hill, F. S., *Sr. a* 9 W W
Hill, R., Jr., *So. a* 9 W W
Hinds, R., *Sr. a* 2 S D

Hinrichsen, C. F., *Jr. a* 9 W B
Hinton, S., *Fr. a* 41 N Ed.
Hoag, R. C., *Sr. a* 12 S D
Hoagland, A. N., *Sr. s* 6 E B
Hobbie, A. T., *Fr. s* 13 N W
Hobbie, L. St. J., *Sr. a* 13 N W
Hobbs, A. L., *Jr. a* 4 W W
Hoen, F. J., *Sr. a* 22 B
Hoffman, W. P., *Fr. s*
15 Dickinson St.
Holbrook, R., *Jr. s* 182 L
Holden, C. L., *Fr. s* 111 L
Holden, E. P., Jr., *Sr. a* 71 B
Hollenbeck, J. S., *Fr. a*
Sem. Refectory
Hollowbush, F. A., *Fr. a*
32 Wiggins St.
Holmes, H., *So. s* 3 S E B
Holsapple, E. T., *Fr. a*
16 Van Deventer Av.
Hood, J. W., *g* 8 A S
Hooks, D. M., *Jr. a* 81 B
Hopkins, G. A., *Sr. a* 71 L
Hopkins, G. D., *Jr. a* A, E B
Horn, J. H., *Jr. s* 2 M D
Horton, W. C., *So. s* 8 S R
Hosford, C. F., *So. a* 2 E W
Hoskins, J. P., *Ass't Professor*,
22 Bank St.
Hoster, O. W., *So. s* 6 N R
House, C. L., *Fr. s* 19 M D
Houston, W. S., *So. s*
36 Wiggins St.
Hovey, F. A., *Sr. a* 21 B
Howard, L., *Fr. a*
39 Van Deventer Av.
Howard, L. W., *So. s* 64 U
Howe, F. R., *Sr. s* 16 N W
Howell, E. O., Jr., *Jr. a*
10 E M W
Howie, B., *Sr. a* 15 M D
Hoyt, L. W., *Sp.* 161 L
Hoyt, W. S., *Sr. a* 3 N R
Hubbell, S. B., *Sp.* 15 L
Huddleson, J. H., Jr., *Fr. a*
42 Wiggins St.
Hudson, W. C., *g* Merwick
Hulbirt, E. R., *So. s* 17 S M R
Hulett, G. A., *Ass't Professor*,
2 Murray Pl.
Hull, A. S., *2 e* 4 N R
Hulsizer, W. H., *Jr. s* 5 E W
Hulsizer, W. R., *Jr. a* 5 E W
Hun, J. G., *Instructor*, Library Pl.
Hunt, C. W., Jr., *Fr. a*
15 Dickinson St.
Hunt, T. W., *Professor*,
48 Library Pl.
Huntting, G. N., *Jr. a* 2 W B
Huston, J. A., Jr., *So. s* 8 S R
Hutcheson, W. P., *Fr. a*
47 Univ. Pl.
Hutchins, J. C., Jr., *Fr. a*
47 Univ. Pl.
Hutchinson, C. P., *Fr. a*
31 Univ. Pl.
Hutchinson, M., *Fr. a* A, Hill
Hutchison, F. R., *So. s* 1 N M R
Hutson, F. L., *Preceptor*, 91 B
Huyler, C. D., *Jr. a* 3 W M W
Hyde, W. M., Jr., *Jr. a* 308 H S

Ill, E. A., *Sr. s* 31 L
Irwin, J. R., *Sr. a* 142 L
Irwin, W., *g* 4 N R
Ivins, C. F., *Fr. s* 39 Univ. Pl.

Jack, H. M., *Sp.* 9 S D
Jackson, D. E., *g* 1 B S
Jackson, J. H., Jr., *So. a* A, U
Jackson, J. K., *Sr. a* 12 W B
Jacobus, M. W., *Trustee*,
Hartford, Conn.
Jahn, N. F., *Fr. s* 7 N W
James, N., *Jr. s* 64 B
Jamieson, E. S., *Jr. a* 11 '79 H
Jamison, R. E., *Fr. s* 8 S E B
Jeans, J. H., *Professor*,
73 Nassau St.
Jefferson, A. C., *So. s* 19 W W
Jennings, L. D., *Fr. a* 19 N Ed.
Jennings, M. W., *Jr. a* 82 B
Jessup, E. H., *Sp.* 4 W B
Johnson, C. L., *Sp.* 13 E W
Johnson, H. McC., *Jr. a* 121 L
Johnson, R. B. C., *Preceptor*,
1 Linden Lane
Johnson, R. K., *So. s* 5 S W B
Johnson, S., Jr., *Sr. s* 96 B
Johnson, W. McC., *So. a* 9 W M W
Johnston, R. W., *Fr. a* 31 N Ed.
Johnston, W. W., *g* 400 H S
Joline, J. F., Jr., *Jr. a* 6 W M W
Jones, A. L., *Preceptor*,
148 Nassau St.

JONES, C. H., *Instructor*, Merwick
JONES, D. B., *Trustee*, Chicago
Jones, D. R., *Jr. a* 19 B S
Jones, G. C., *Fr. s* 138 Nassau St.
Jones, H. C., *So. s* 9 W M W
Jones, H. L., *So. a* 1 U
Jones, J. C., Jr., *Fr. a* 138 Nassau St.
Jones, L. C., *Jr. s* 11 L P
Jones, R. B., *So. a* 2 S W B
Jones, R. E., *So. s* 7 S M R
Jones, R. H., Jr., *Sr. a* 3 N R
Joseph, L. A., *g* 6 A S
Joy, H. E., *So. a* 14 U

Kahler, H. C., *Sr. a* 62 '79 H
Kain, W. F., *So. s* Hill
Kalisch, I., *So. a* B, U
Kallina, E. J., *Sr. a* 1 S E B
Kane, G., Jr., *g* 21 A S
Karow, E., Jr., *r e* Merwick
Kauffman, J. L., *So. a* A, B
Keen, F. A., *Fr. a* 46 Van Deventer Av.
Keeney, G. A., Jr., *Jr. s* 16 B
Keepers, G. A., *So. a* 4 U
Keepers, W. L., *Jr. a* 53 L
Keith, H. H., *Sr. a* 24 L
Keith, R., *Jr. a* 5 U P
Kelley, E. C., *Fr. s* 168 Nassau St.
KELLOGG, E. H., *Organist*, 44 Alexander Hall
Kellogg, E. W., *Sr. s* 9 S R
KELLOGG, G. D., *Preceptor*, 10 Nassau St.
Kellogg, J. Y., *Fr. s* 12 Park Pl.
Kellogg, R. W., *Jr. a* 44 A S
Kelly, E. H., *Fr. s* 47 U
Kelly, J. H., *So. s* 134 L
Kelso, W. G., Jr., *g* 16 S Ed.
Kennedy, C. W., *g* Merwick
Kennedy, F., *Sr. s* 2 B
Kent, P., *Fr. a* 31 Univ. Pl.
Kerper, J. F., Jr., *Jr. s* 2 N D
Kerr, B. W., *Sr. s* 20 E W
Kerr, E. S. W., *Fr. a* 28 S Ed.
Kerr, J. T., *So. a* B, W B
Kerr, W. McC., *Jr. a* 31 '79 H
Keys, W. A., Jr., *Fr. a* 31 Univ. Pl.
Kidney, R. S., *Jr. s* 9 N W
Kiefer, R. W., *Fr. s* 15 Univ. Pl.
Kienbusch, C. O. v., *Sr. a* 62 '79 H
Kilgore, R., *So. s* 2 E M W
Kilpatrick, G. W., *Jr. a* 3 S W B
Kimball, H., *Fr. s* 2 Nassau St.
Kimball, P., *Fr. a* 72 L
Kimberley, D. L., *So. s* 23 M D
King, R. R., *Fr. a* D, W B
Kirkman, R., *Jr. a* 8 W W
Kline, F. L., *Sr. a* 12 U
Kline, H. E., *Sp.* 11 U
Kline, W. H., *Sp.* 162 Nassau St.
Klotz, F. G., *Jr. a* 19 E W
Knauer, C. E., *Fr. s* 23 William St.
Knott, L. A., *So. a* H, U
Koch, R. R., *Fr. s* 45 Univ. Pl.
Kolb, F. W., *Sp.* 1 N M R
KOREN, W., *Preceptor*, 65 B
Kouwenhoven, C. B., *Jr. s* 6 N D
Krause, A. K., *Jr. a* 10 N R
Krieble, I. R., *So. a* 17 S M R

La Fevre, C. A., *Fr. s* 35 William St.
Laird, D., *Sr. s* 24 L
Lambert, G. B., *So. s* 90 Nassau St.
Landis, R. K., *Jr. a* 61 L
Lanning, K. H., *So. a* 60 U
Larabie, C. E., *Fr. s* 2 Nassau St.
La Roe, W., Jr., *Fr. a* 22 N Ed.
Larson, T. E., *Jr. a* 15 S M R
Larzelere, C. T., *Jr. a* 6 S E B
Lategan, D., *g* 401 H S
Latimer, C. H., *Fr. s* 19 Univ.Pl.
Latimer, E., *So. s* 5 W W
Latimer, H. R., *So. s* 5 W W
Latta, W. J., Jr., *Fr. s* 31 Nassau St.
Laubach, F. C., *Fr. a* 3 M D
Laurence, W. C., Jr., *Fr. s* 45 Univ. Pl.
Lautz, M. W., *So. s* P, U
Leake, F., *So. s* 3 N D
Leaming, R. S., *Sr. s* 43 L
Leas, D. S., *Sp.* 17 U
Lee, T., *g* 25 A S
Leitch, R. I., *Jr. s* 12 E W
Leonard, A. C., *Fr. s* 18 Van Deventer Av.
Leonard, G. A., *So. a* 3 U P
Leslie, E. H., *Sr. a* 7 S W B
Letcher, G. O., *g* Merwick
Letts, F. C., *Sr. a* 13 '79 H

Levis, C. C., *Jr. a* 80 Nassau St.
LEWIS, E. S., *Professor*, 20 Bank St.
Lewman, H. P., *Jr. a* 80 Nassau St.
Lexow, M., *So. s* 31 U
LIBBEY, W., *Professor*, Thanet Lodge
Libby, F. O., *Sr. a* 4 S R
Lichty, B. G., *So. s* 6 B
Liggett, T., Jr., *Sr. s* 44 B
Lilly, G. A. McA., *g* 68 B S
Lingle, R. P., *So. s* 4 E B
Linton, J. M., *g* 42 A S
Lippincott, J., *Fr. s* 11 Univ. Pl.
Lithgow, L. G., *Jr. a* 24 '79 H
Little, A. A., *Fr. s* 39 Univ. Pl.
LITTMANN, E., *Lecturer*, Abroad
Lloyd, W. H., *Sr. a* 15 N W
LONG, A. W., *Preceptor*, 11 B
Longstreet, H. M., *Fr. a* 31 U. Pl.
Loomis, E., *So. s* 61 U
LOOMIS, E. H., *Professor*, 302 Nassau St.
Looms, G., Jr., *So. s* 77 U
Losey, L. A., *Jr. a* 9 N R
Lothrop, G. V., 2d, *So. a* 82 Nassau St.
Louderbough, J. J., *Jr. a* 8 N R
Love, G. S., *Jr. a* 186 L
LOVETT, E. O., *Professor*, 16 Prospect Av.
Luce, H. V., *Sp.* 13 N Ed.
LUDINGTON, A. C., *Instructor*, 8 L P
Luke, C. W., *So. s* 80 Nassau St.
Lunn, A. W., *Jr. a* 132 L
Lupfer, R. N., *Fr. a* 19 Univ. Pl.
Lyman, C. G., *Jr. a* 5, E B
LYON, C. E., *Instructor*, The Bachelors
Lyon, O. C., *Fr. a* 34 Van Dev. Av.
Lyons, H. C. C., *Jr. s* 7 S D

McAllister, D. H., *Fr. s* 148 Nassau St.
McAlpin, A. H., *Jr. s* 35 U
MCALPIN, C. W., *Secretary*, Chancellor Green Library
McAlpin, K. R., *g* 35 U
McAusland, R. H., *Jr. a* 68 L
McCallie, D., *g* 57 B S
McCarter, G. W. C., *So. a* 54 '79 H
McCarthy, D. F., *Sr. s* 169 Nassau St.
McCauley, H., *Sr. a* Trenton, N.J.
MCCAY, L. W., *Professor*, 257 Nassau St.
McClanahan, N., *Sr. a* 38 S Ed.
McClanahan, P., *Sr. a* 38 S Ed.
McClay, S. K., *Sp.* 32 B
MCCLENAHAN, H., *Ass't Professor*. 12 Bank St
McClintock, A. T., *Jr. a* 21 '79 H
McClintock, C. A., *Jr. a* 41 '79 H
McClintock, G. S., *So. a* 21 '79 H
McClure, A., Jr., *Sr. a* 33 '79 H
MCCLURE, C. F. W., *Professor*, 257 Nassau St.
McClure, J. C., *Sr. s* 33 '79 H
McCombe, J. W., *g* 64 B S
MCCOOK, J. J., *Trustee*, New York City
MCCORMICK, C. H., *Trustee*, Chicago, Ill.
McCormick, F. C., *Jr. s* 3 S E B
McCormick, J. B., *So. s* 11 E W
MacCoy, W. L., *Sr. a* 96 B
McCracken, F. B., *Jr. s* 4 W B
McCrary, I. J., *Jr. a* 5 S W B
McCreary, G. D., Jr., *Sr. s* 32 '79 H
McDermott, W. C., *So. s* 15 N M R
MACDONALD, F. C., *Preceptor*, 32 Mercer St.
Macdonald, G., Jr., *Sr. a* 1 L P
MacDonald, J. D., *Fr. s* 60 Wiggins St.
MCELROY, R. M., *Ass't Professor*, 86 Stockton St.
McEwen, K. M., *Sr. a* 15 E W
McGee, B. F., *Sr. a* 83 B
McGee, W. L., *Fr. a* 40 S Ed.
McGiffert, J. E., *Sr. a* 35 L
McIlvain, W. B., *Jr. s* 7 N D
MCILWAIN, C. H., *Preceptor*, 9 Madison St.
MACINNES, C. R., *Instructor*, 29 Park Pl.
McIntyre, N. W., *Jr. a* 2 W M W
McKaig, E. S., *So. s* 144 Nassau St.
McKaig, F. P., *Fr. s* 2 Nassau St.
McKee, J. D., *Jr. s* 6 B
McKellar, E. D., *Sr. s* 192 Nassau St.

Mackenzie, C. A., *Sr. a* 83 B
Mackie, A., *Jr. a* 4 E B
Mackie, J. B. C., *g* 110 H S
Mackie, N. S., *Fr. a* 15 Univ. Pl.
McKimmie, A. A., *Sr. a* 9 S R
McKinnon, M., *So. a* 3 S W B
McLean, E. H., *So. a* B, W B
McLean, W. E., *Jr. a* 5 N M R
McLeod, A. A., Jr., *Sr. a* 171 L
MacLeod, F. L., *g* 103 H S
McLeod, W. C., *g* 103 H S
MACLOSKIE, G., *Professor*, 239 Nassau St.
McMILLAN, C., *Professor*, 40 Bayard Lane
McNair, R. S., *So. a* 20 S Ed.
McNaughton, J., *Sr. s* 71 L
McNeely, C. W., *Fr. s* 44 Van Deventer Av.
McNeill, C. C., *g* 36 A S
McNiece, R. S., *Jr. a* 15 S M R
Macpherson, D. F., *Sr. a* 42 L
Macpherson, J. F., *Sr. a* 38 L
McPherson, O. H., *Sr. a* 17 B
McPHERSON, S. J., *Trustee*, Lawrenceville, N. J.
MACRAE, D. A., *Preceptor*, 14 Dickinson St.
MacSherry, S. H., *Fr. s* 53 Univ. Pl.
McWILLIAMS, E. C., *Instructor*, 23 Edw. Pl.
McWilliams, N. B., *Fr. a* 13 S M R
MAGIE, D., Jr., *Preceptor* 12 Nassau St.
MAGIE, W. F., *Clerk of the Faculty*, 78 Library Pl.
MAGIE, W. J., *Trustee*, Elizabeth, N. J.
Magoffin, M. B., *So. a* E, U
Mahany, D., *So. s* 90 Nassau St.
Mahn, B. R., *Sp.* 144 Nassau St.
MARCH, H. W., *Instructor*, 2 S Ed.
March, W. A., *So. s* D, U
Maresi, P. M., *Fr. a* Edw. Pl.
Markham, A. W., *So. s* 8 S W B
Markley, L., *Fr. s* Hill
Marlin, R. D., *So. s* 162 Nassau St.
MARQUAND, A., *Professor*, Guernsey Hall
Marquis, C. D., *Sr. s* 61 '79 H
Marsching, R. L., *So. s* 73 U
Marsh, H. L., *Jr. a* 63 '79 H
Marshall, T. H., *So. a* A, B
Martin, A. T., *So. s* 44 '79 H
Martin, J., *Jr. a* 92 B
Martin, J. L., *g* Merwick
Martin, J. L., Jr., *Jr. a* 172 L
MARVIN, W. T., *Preceptor*, 44 Wiggins St.
MASON, M. P., *Instructor*, 32 Mercer St.
Matheny, R. C. O., *Fr. s* 15 Dickinson St.
MATHEWS, C. E., *Instructor*, 26 Bank St.
Mathews, E. G., *Jr. s* 3 E B
Mathews, E. N., *Fr. s* 19 Univ. Pl.
Matter, M., *Fr. s* 1 Van Deventer Pl.
Matthews, L. W., *g* 39 B S
Matthews, W., *Jr. a* 10 N W
Maulsby, H. H., *Fr. a* 37 Wiggins St.
Maurice, A. T., *Sr. a* 15 N W
Maury, A. G., *So. s* 12 B
Maury, J. R., Jr., *Fr. a* Hill
May, E. C., *Fr. s* 22 Edw. Pl.
Mayer, F. L., *Fr. a* 47 Univ. Pl.
Mecabe, E. W., *So. a* 8 E W
Medina, H. R., *Fr. a* Edw. Pl.
MEEKER, R., *Preceptor*, 61 Wiggins St.
Meese, D. O., *Fr. a* 43 B
Menefee, A. B., *Jr. s* 1 W M W
Messler, J. S., *g* 21 L
Mettler, T. H., *So. a* 94 B
Mewhinney, E. A., *Fr. a* 29 N Ed.
Mierow, C. C., *g* 44 Mercer St.
Miers, E. D., *So. a* 88 Nassau St.
Mildeberger, V. R., *Fr. a* Hill
Miles, A. R., *Jr. a* 8 W M W
MILES, L. W., *Instructor*, 272 Nassau St.
Miller, C. F., *Jr. a* Hill
Miller, E. P., Jr., *So. a* 10 S W
Miller, H. W., *g* 207 H S
Miller, J., *Sr. a* C, E B
Miller, K. D., *So. a* 12 S E B
MILLER, L. H., *Ass't Professor*, 15 Alexander St.
Milligan, J. C., *Fr. s* 90 Nassau St.
Milne, A., Jr., *Fr. s* 37 Wiggins St.

Mitchell, R. H., *Fr. s* 31 S Ed.
Mitchell, S. S., *Fr. a* 144 L
Mitchell, W. M., *g*
The Observatory
Mixsell, H. R., *Sr. a* 9 S W B
Moffett, J. A., Jr., *Fr. s*
138 Nassau St.
Moller, W. G., *Fr. s*
90 Nassau St.
MOORE, A. A., *Preceptor,*
10 Nassau St.
Moore, E., *Fr. s* 148 Nassau St.
Moore, H. L., *Sr. s* 185 L
Moore, L. L., *g*
118 Alexander St.
MOREY, C. R., *Instructor,*
32 Van Deventer Av.
MORGAN, J. S., *Associate Librarian,* Constitution Hill
Morris, McL. F., *Jr. a* 11 E B
MORROW, E. B., *Instructor,*
Merwick
Morrow, H. S., *Fr. s*
172 Nassau St.
Morton, S., *Sr. a* 9 B
Moscrip, L. S., *Fr. s*
23 William St.
Mosher, O. W., Jr., *Fr. s*
15 Univ. Pl.
Motter, W. C., *Sp.* 8 E M W
Mount, R. I., *So. s* Hill
Moyer, W. T., *Jr. a* 10 N R
Mulford, R. H., *Fr. a*
2 Nassau St.
Muller, J. A., *Jr. a* 8 N Ed.
Mulry, G. W., *Sp.* 54 B
Munkittrick, M. T., *Fr. a* 42 B
Munn, O. D., Jr., *Sr. a* 7 L P
Munn, J. R., *Sr. s* 4 W M W
Munoz, J., *So. s* 148 Nassau St.
Murray, C., Jr., *Jr. a* 8 N M R
Murray, J. W., *Fr. s* 35 N. Ed.
Murray, S. B., Jr., *Fr. a*
11 Park Pl.
Musser, C. A., *Sr. a* 123 L
Myers, A. C., *Fr. a* 11 Univ. Pl.
Myers, F. C., *Fr. a* 10 S. E. B
Myers, J. P., *So. a* 62 U
Myers, W. A., *Fr. s*
34 Van Deventer Av.
Myers, W. H., Jr., *Fr. a*
11 Univ. Pl.

Nakagawa, T., *g* 32 N Ed.
Nash, D. H., Jr., *Jr. s* 10 E B
Nash, F. J., *Sr. a* 2 B
Nason, F. R., *Sr. a* 38 L
Needels, G. T., *g* 41 B S
Neff, W. R., *So. s* 90 Nassau St.
NEHER, F., *Professor,*
96 Library Pl.
Neill, G. G. E., *Jr. a* 51 B
Neilson, J. A., *Fr. a* 36 N Ed.
Nethery, T. G., *g* 67 B S
Newcomb, L. W., *Jr. a* 7 S D
Newkirk, J. M., *g* 13 A S
Niblack, A. H., *Fr. s*
168 Nassau St.
Nicholls, C. C., Jr., *Sr. a* 66 L
Nichols, C. C., *So. s*
144 Nassau St.
Nichols, C. H., *Fr. a*
31 Nassau St.
Niles, F. S., *Fr. a*
Sem. Refectory
Niles, M. S., *So. a* Hill
NORTHUP, G. T., *Preceptor,*
12 Nassau St.
Northwood, A., *Fr. a* 14 N Ed.
Norton, P., *Jr. a* 4 S W B
Nuelle, J. H., *Sr. s* 4 S E
Nutt, J. B., *Jr. a* 80 Nassau St.
Nuttall, J., *So. a* 12 U
Nutting, J. H., *Fr. a*
14 Park St.

Oakford, W. P. S., *Sr. s* 1 E M W
Ober, A. G., Jr., *Fr. s* Edw. Pl.
Ober, D., *Fr. a* Edw. Pl.
Ober, J. H., *Fr. a* Edw. Pl.
Oberndorf, P. E., *Sp.* 9 S W B
O'Brien, W. D., *Fr. s* 4 M D
Odell, E. A., *g* 111 H S
Odell, W. T., *Sr. a* 12 S W B
Offutt, G. W., *Sr. a* 6 W B
Ogden, E. M., *Fr. a*
172 Nassau St.
Olcott, A. Van S., *Fr. s* Edw. Pl.
Olcott, G., *Fr. a* 39 Univ. Pl.
Olds, E. C., *Fr. a* 38 U
Oliphant, A. D., *Fr. a*
31 Univ. Pl.
Oliver, A. C., Jr., *Jr. a* 22 M D
Ong, E. M., *So. s* 9 U P
Ormond, A. H., *So. a*
276 Nassau St.

ORMOND, A. T., *Professor*, 276 Nassau St.
Ormond, J. K., *Sr. a* 276 Nassau St.
Orr, A., Jr., *Sr. s* 142 L
ORRIS, S. S., *Professor*, Harrisburg, Pa.
Osborn, A. H., *Jr. s* 68 L
Osborn, H. F., Jr., *Fr. a* 162 L
Osborne, L., *Jr. s* 3 W B
Osborne, R. D., *So. s* 90 Nassau St.
OSGOOD, C. G., Jr., *Preceptor*, 39 Univ. Pl.
Ostrom, H. C., *g* 37 A S
Otheman, R. C., *Jr. a* 11 N D
Otis, A. H., *Sr. s* 5 W B
Otis, N. P., Jr., *Jr. a* 11 N D
Ottinger, W. N., *Fr. a* 1 S D
Overton, G. M., *Sp.* 17 M D
Oves, G. McC., *Sr. a* 12 N M R
Owen, R. W., *Jr. a* 53 L

PACKARD, W. A., *Professor*, College Place
Page, A. S., 2d, *Fr. s* 53 Univ. Pl.
Palmer, E. A., *Sr. a* 7 W M W
PARDOE, W. D., *Assistant*, Tusculum
Parke, N. G., 2d, *So. s* 10 L P
Parker, H. T., *Jr. a* 8 W M W
Parkin, H. C., *So. s* L U
PARROTT, T. M., *Professor*, 104 Mercer St.
Parsons, R. P., *Fr. a* 33 Edw. Pl.
Passarella, M., *Fr. a* 11 S M R
PATTON, F. L., *Ex-President*, Springdale
PATTON, G. S., *Professor*, Springdale
Peacock, C. N., *Fr. s* 14 E W
Peacock, J. C., *Fr. a* 19 N W
Pearl, D., Jr., *Sr. a* 52 B
Pears, T. C., Jr., *Jr. a* 54 L
Peckham, H. R., *Fr. s* 2 Nassau St.
Peckham, P. T., *Jr. a* 4 W W
Peirce, C. C., *Fr. a* 11 Dickinson St.
Pennington, J. A. G., *Fr. a* 33 Edw. Pl.
Penrose, C., *Jr. s* 63 '79 H
Perley, A. P., Jr., *Jr. a* 12 E W
Perrine, F. S., *Fr. s* 42 Wiggins St.
Perry, O. H., Jr., *Sr. s* 16 M D
Peters, R., Jr., *So. s* Hill
Peterson, C. W., *g* 23 B S
Petrie, J. J., *Sr. a* 7 N M R
Pfeiffer, T. N., *So. a* 12 S E B
PHILLIPS, A. H., *Professor*, Hodge Av.
Phillips, C. K., *Fr. a* 10 S R
Phillips, J. R., Jr., *Sp.* M, U
Phillips, MacN. A., *Sr. a* 11 S E B
Phillips, S., *Fr. s* 21 S Ed.
Phillips, W. J., *So. a* 17 U
Phinny, H. B., Jr., *So. s* 16 S W
Phraner, S. W., *Fr. a* 18 N W
Pierce, A. J., *Fr. s* 96 Library Pl.
Pierce, H. D., Jr., *Sr. a* 5 E M W
Pierson, H. O., *Sr. a* 2 S D
Pitts, R. S., *Sr. a* 75, 76 U
Plaut, L. S., *Fr. a* 15 Univ. Pl.
Plunkett, C. T., *Fr. a* 31 Univ. Pl.
Pomeroy, W. McL., *So. a* 34 '79 H
Porch, C. D., *Jr. s* 7 S W
Porterfield, A. B., *Jr. a* 154 L
Potter, A. T., *Sp.* 42 L
Power, H. L., *So. s* 16 E W
PRENTICE, W. K., *Professor*, 12 Nassau St.
Presbrey, C. S., *Sr. a* 14 '79 H
Press, W. C., *g* A, A S
Preusse, J. W., *Sr. s* 42 '79 H
Price, C. B., *Sr. a* 11 S E B
Price, J. H., *So. s* 11 S E B
Price, J. S., *So. a* 13 S W
PRIEST, G. M., *Preceptor*, 5 S E B
Prizer, W. M., *So. s* 5 S R
Pullen, E. C., *So. a* 1 S E B
Purves, W. M., *Fr. a* 25 Alexander St.
Pyle, D. H. McA., *So. a* 9 L P
Pyle, J. McA., *Sr. a* 9 L P
PYNE, M. T., *Trustee*, Drumthwacket
Pyne, M. T., Jr., *So. a* 5 L P

Quintard, C. L., *Sr. a* 9 M D

Rafferty, E. L., *Sr. a* 80 Nassau St.
Ralli, C. P., *Sp.* 47 U
Ralston, D. B., *g* 3 B S
Randolph, G. M. F., *Jr. s* 3 E M W
Ranken, D. D., *2 a* 1 S W
Rankin, E. E., *Fr. a* 7 E M W
RANKIN, E. M., *Preceptor,* 43 '79 H
Rankin, H. E., *Fr. a* 7 E M W
RANKIN, W. M., *Professor,* Evelyn Pl.
Read, C. N., *So. s* 1 U P
Read, R. J., *Jr. s* 7 E M W
Rebert, C. M., *Sr. a* 7 W W
Reed, H. B., *Sr. s* 38 Wiggins St.
Reed, T. B., *So. s* 20 M D
Rees, B. LeG., *Jr. s* Hill
Reid, C. L., *Sp.* 11 Dickinson St.
Reid, S. J., Jr., *Sr. a* 31 L
Rendall, H. J., *g* 109 H S
Rentschler, F. B., *Fr. s* 12 W W
Rentschler, G. S., *Jr. a* 12 W W
Rentschler, R. P., *Sr. a* 7 W B
Reppert, G. H., *Sr. s* 7 B
Reyburn, F. V., Jr., *Jr. a* 164 L
Reynolds, H., *Fr. a* 33 Edw. Pl.
Reynolds, L. J., *Fr. a* 32 Wiggins St.
Reynolds, M. K., *Fr. s* 47 Univ. Pl.
Rheinstein, S., *Jr. a* 82 B
Rhodes, H. A., *g* 217 H S
RICHARDS, A. E., *Instructor,* 30 Mercer St.
RICHARDSON, E. C., *Librarian,* 220 Mercer St.
Richardson, L. K., *Jr. a* 53 B
Richardson, L. W., *Fr. a* 7 E M W
Richardson, R. B., *Sr. a* 35 L
Richardson, W. E., *Fr. a* 10 S E B
Riddle, R. J., Jr., *Fr. a* 53 Univ. Pl.
Riggs, J. F., Jr., *Jr. a* 8 N R
Rinker, R. A., *g* 62 B S
Rising, S. M., *Fr. s* Hill
Robbins, C. A., *So. a* P, U
ROBBINS, E. Y., *Professor,* 58 Univ. Pl.
Robert, D. R., *Jr. s* 154 L
Roberts, D., *Fr. a* 66 U
Roberts, S. L., *g* 409 H S
Robinson, F. C., *So. s* 70 U
Robinson, H. W., *Fr. s* 22 Van Deventer Av.
Robinson, M., *Sr. a* 2 S E B
ROBINSON, P. E., *Instructor,* 12 Nassau St.
Robinson, T., *g* 211 H S
Roche, C. E., *Jr. a* 24 M D
Rockwell, R. F., *Fr. s* 47 Univ. Pl.
ROCKWOOD, C. G., Jr., *Professor,* 34 Bayard Lane
Rogers, C. H., *Fr. s* 39 Univ. Pl.
Rollins, F. B., *Sr. a* 2 B
Rolston, R. G., *Fr. s* 19 Univ. Pl.
ROOT, R. K., *Preceptor,* 90 Nassau St.
Ropes, R., *Fr. a* 23 Edw. Pl.
Rose, A. L., *So. a* C, U
Rosenfeld, E. A., *Fr. s* 90 Nassau St.
Rouse, L. J., *So. a* 9 Park Pl.
Rue, J. D., Jr., *Sr. s* 21 L
Runyon, R. C., *So. s* D, U
Russel, R., *So. s* 80 Nassau St.
RUSSELL, A. D., *Trustee,* Edgerstoune
Russell, C. P., *g* 7 N Ed.
RUSSELL, H. N., *Instructor,* 79 Alexander St.
Rust, J. D., *Sp.* 34 B
Rust, J. F., *Jr. a* 51 L
Ryan, A., *Sp.* 81 B

Salsbury, J. M., *Fr. s* 53 Univ. Pl.
Samuels, A. H., *Fr. a* 46 Van Deventer Av.
Sands, A. L., *Fr. s* 39 Van Deventer Av.
Sanford, A. H., *Fr. a* 34 Van Deventer Av.
Sanford, F. D., *Fr. a* 29 Van Deventer Av.
Sargent, G. L., *Jr. a* 12 E B
Sayer, W., *Fr. a* 44 Van Deventer Av.
Sayre, J. N., *Jr. a* 23 '79 H
Schaff, P. H., *Sr. a* 133 L
Schaff, S. R., *Jr. s* 3 E M W
Schaff, W., *Fr. a* 8 W B

Schoonmaker, W. J., *Jr. s* 2 N D
Schroeder, W., *So. a* F, U
Schumaker, I. R., *Jr. a* 54 B
Schussler, W. F., *Sp.* 6 E M W
Schwarzschild, M. M., *Jr. a* Hill
Schwob, H., *Sr. a* 9 B
Scott, A. H., *Sr. s* 4 S R
Scott, A. H., *So. s* 2 E B
Scott, C. H., *Fr. a* 56 Bayard Lane
Scott, D., *Jr. a* 6 S E B
Scott, J. F. R., *So. a*
88 Nassau St.
Scott, L. M., *Fr. s*
56 Bayard Lane
Scott, L. P., *Fr. a* 10 S R
Scott, R. F., *Jr. s* 72 B
SCOTT, W. B., *Professor*,
56 Bayard Lane
Scudder, C. D., *Jr. a* 11 '79 H
Scull, J. I., *Fr. a* Edw. Pl.
Scully, R. T., *So. s* 1 U P
Seeley, G. P., Jr., *Fr. s*
33 Edw. Pl.
Seeley, P. S., *Sr. a* 22 '79 H
Seitz, C. H., *Jr. a* 12 E B
Seki, Wachi, *g* 40 N Ed.
Selby, E. C., *Fr. s* 168 Nassau St.
Selden, H. B., *Fr. s* Edw. Pl.
Senouye, H., *g* 59 B S
Sensenbrenner, J. S., *Fr. s*
172 Nassau St.
Serfas, T. A., *So. a* 4 U
Sergeant, G. R., *Fr. s* Edw. Pl.
Sewall, C., *So. a* 2 E B
Shafer, D. A., *So. s*
36 Wiggins St.
Shafer, G. McM., *g* 65 B S
Shaner, C. H., *Fr. s*
42 Wiggins St.
Shankweiler, C. G., *Sp.* 44 L
Shaw, H. N., *Jr. a* 41 L
Shearer, C. W., *1 e* Merwick
SHELDON, W. H., *Preceptor*,
73 Prospect Av.
Shellabarger, S., *Fr. a*
19 Univ. Pl.
Sherman, J., *So. s* 144 L
Sherrill, H. W., *Fr. s* O, U
Shiffler, H. C., *g* 73 B S
Shimberg, C. R., *Fr. a*
32 Van Deventer Av.
SHIPMAN, H. R., *Preceptor*,
27 Mercer St.
Shipman, J. G., *Sr. a* 35 L
Shirley, R., *Jr. a* 11 M D
Shoemaker, I. L., *Sr. a* 12 S W B
Shoemaker, J. H., *Fr. a* 36 N Ed.
Shoemaker, L. B., *Sr. s* 1 E M W
Shultz, D. S., *Fr. a* 3 M D
Shumway, E. DeW., *So. s* 42 U
Sichelstiel, A. J., *Fr. a*
34 Van Deventer Av.
Sidebotham, R. S., *Jr. a* 1 W W
Sides, W. R., *Fr. s* 13 D
Sidwell, P., *Fr. a* 47 Univ. Pl.
Silvers, W. R., *Fr. a*
37 Wiggins St.
SILVESTER, C. F., *Assistant*,
10 Nassau Hall
Simons, F. P., *Sr. a* 15 B
Simons, G. S., Jr., *Sr. s* 15 B
Simons, L. H., *So. a* 10 S W B
Simpson, H. M., *So. a* 70 U
Simpson, R. S., *Sr. a* 16 N W
SINCERBEAUX, C. S., *Instructor*,
204 Nassau St.
Sinclair, S. M., *Sr. a* 96 B
SINCLAIR, W. J., *Instructor*,
27 S Ed.
Sloan, A. K., *Jr. a* 8 S E B
Sloane, G., *Jr. a* 17 N W
Slocum, M. S., *Fr. s*
18 Van Deventer Av.
Smith, C. C., *Jr. a* 11 W B
Smith, C. F., *Jr. a* 17 N W
Smith, C. N., *So. a* 3 S M R
Smith, C. P., *So. s* 93 B
Smith, F. N., *Jr. a*
38 Washington Road
Smith, G. D., *So. s* 54 '79 H
Smith, H. A., *Fr. s*
172 Nassau St.
Smith, H. D., *Sr. a* 97 B
Smith, H. J., *Sr. s* 7 B
SMITH, H. S. S., *Professor*,
4 E W
Smith, I. H., *Fr. s* 2 Nassau St.
Smith, J. H., *Jr. a* 172 L
Smith, L. C., *Jr. a* 98 B
Smith, L. W., *So. a*
36 Wiggins St.
Smith, R. H., *Fr. a*
22 Madison St.
Smith, S. M., *Sr. a* 1 E M W
Smith, T. L., *So. a*
36 Wiggins St.

Smith, W. P., Jr., *Fr. s* 31 Univ. Pl.
SMYTH, C. H., Jr., *Professor*, 65 Stockton St.
Snakard, J. B., *Fr. s* Hill
Sohmer, H. J., *Jr. a* 20 W W
Solinger, W. B., *So. a* 3 S R
Southerland, C. A., *Fr. a* 172 Nassau St.
Southworth, F. P., *So. s* 199 Nassau St.
Spadone, A., 2d, *So. s* 144 Nassau St.
SPAETH, J. D., *Preceptor*, 20 Alexander St.
SPAULDING, E. G., *Preceptor*, 148 Nassau St.
Speers, H. B., *Fr. s* 17 Madison St.
Spelletich, K., *Sr. s* 62 B
Spencer, A. H., *So. a* 88 Nassau St.
Spencer, C. DuP., *So. a* 110 Nassau St.
SPENCER, C. W., *Preceptor*, The Nassau Hotel
Spencer, J. C., *Jr. a* 183 L
Spohn, G. S., *Sr. a* 13 S D
Sprague, C. O. M., *Fr. s* Edw. Pl.
Springer, W. C., *So. s* 162 Nassau St.
Stagg, D. C., *Sr. s* 9 M D
Stagg, E., Jr., *Fr. s* 32 Van Deventer Av.
Stainback, I. M., *Jr. a* 18 S M R
Stanard, E., *Fr. s* 90 Nassau St.
Stanley, E. O., Jr., *Sr. a* 5 N W
Stark, G. S., *g* 6 Jackson St.
Stauffer, I. Y., *Fr. s* 42 Wiggins St.
Steele, L. S., *Jr. a* 53 L
Stemple, W. H., *g* 11½ Bank St.
Stephenson, G. T., *So. s* 24 B
Stern, K. G., *Fr. a* 45 Univ. Pl.
Sterringer, M., *Fr. a* 16 Witherspoon St.
Sterritt, R. J., *Jr. a* 1 S D
Stevens, R. E., *Sp.* 8 M D
Stevenson, P. H., *Fr. a* 23 William St.
STEWART, G. B., *Trustee*, Auburn, N. Y.
Stewart, G. B., Jr., *Sr. a* 9 N W
STEWART, J. A., *Trustee*, New York City
Stewart, P. M., *Fr. a* 43 B
Stewart, W., *Sp.* 16 Witherspoon St.
Stickney, H., *Sr. s* 11 S W
Stiles, H. R., *So. a* K, U
Stites, J. H., *Sr. a.* 42 B
Stockton, B., Jr., *Sr. a* 14 '79 H
Stockton, R., *Fr. a* "Morven"
Stockton, W. T., *Fr. a* 14 Park Pl.
Stoever, E. R., *Sp.* 6 U P
Stohlmann, W. F., *Fr. a* 39 Univ. Pl.
STOKES, Gov. E. C., *Trustee*, Trenton, N. J.
Stokes, J., *Fr. s* 11 Univ. Pl.
Stoutenburgh, R. B., *Sr. a* 152 L
Straat, F. C., Jr., *Fr. s* 138 Nassau St.
Strange, R., *Fr. a* 12 S M R
Strater, C. H., *Sr. a* 86 Nassau St.
Stratton, B. F., *Jr. s* 20 A S
Stratton, W. L., *Fr. s* 138 Nassau St.
Strom, E. N., *Sr. s* 82 Nassau St.
Stromberg, C. M., *Sr. s* 8 E B
STROMQUIST, C. E., *Instructor*, 27 Madison St.
Strong, L. P., *Fr. s* 28 Van Deventer Av.
Stryker, E. W., *Fr. s* 46 Van Deventer Av.
Stryker, W. B., *Fr. s* 31 Univ. Pl.
Stuart, A. E., *So. a* 88 Nassau St.
STUART, D. R., *Preceptor*, 266 Nassau St.
Stuckey, H. S., *So. a* 4 N M R
Studer, A. C., Jr., *So. s* 39 U
Sullivan, P. B., *Sr. a* A, E B
Sunstein, E., *Sr. a* 46 L
Surbrug, J. W., Jr., *Fr. s* 34 Van Deventer Av.
Swan, A. L., *Sr. s* 8 W B
Swartz, A. S., Jr., *So. a* 88 Nassau St.

Talbot, A. F. M., *Sr. a* 8 W B
Talbot, B. A., *So. s* 110 Nassau St.

Taliaferro, C. C., Jr., *Jr. s* 12 M D
Taliaferro, T. S., *So. a* 17 U
Tarbell, S., *Sr. a* 1 N W
Taylor, H. F., *So. a*
144 Nassau St.
Taylor, P. M., *So. a* 13 M D
Taylor, R. C., *Fr. s*
Wiggins, Cor. Madison
Tenney, H. S., *Jr. a* 12 B
THAYER, H. W., *Preceptor*,
30 Mercer St.
Thayer, L. C., Jr., *Sr. s* 152 L
Thibaut, R. E., Jr., *So. s* 33 U
THILLY, F., *Professor*,
67 Prospect Av.
THOMAS, D. L., *Instructor*, 6 S D
Thomas, I., *Fr. a* 9 E W
Thomas, J. G., *Jr. a* 12 '79 H
Thomas, R. L., *Fr. a* 72 L
Thomas, W. L., *Jr. a* 26 M D
THOMPSON, H. D., *Professor*,
11 Morven St.
Thompson, H. S., *Sr. s*
Kingston, N. J.
Thompson, J. S., Jr., *Fr. s*
34 Van Deventer Av.
Thompson, L., *g* 402 H S
Thompson, L. M., *So. s* 95 B
Thompson, W. N., *So. a* 10 S W B
Thomson, McL., *Jr. a* 12 '79 H
Thorburn, G., *Fr. a* 23 Edw. Pl.
Throckmorton, A. M., *So. s* 6 B
Tibbott, F. M., *Fr. s*
112 Nassau St.
Timmons, W. M., *Jr. a* 82 B
Tittmann, E. C., Jr., *Fr. s*
45 Univ. Pl.
Tobey, E. D., *Sr. a* 13 B
Tobey, H., *Fr. s*
39 Van Deventer Av.
Toland, E. D., Jr., *So. s* 1 U P
Tomlinson, P. G., *Fr. a*
41 Univ. Pl.
TONKS, O. S., *Preceptor*,
15 Madison St.
Tonnelé, T. M., *Fr. a*
53 Univ. Pl.
Tooker, N. B., *Sr. a* 61 '79 H
Trace, J. M., *Sr. a* 1 M D
Travis, F. W., *Fr. s*
18 Van Deventer Av.
Trimble, H. W., *Fr. a*
39 Univ. Pl.
Trimble, R., Jr., *So. s* 40 U
TRONE, R. E., *Instructor*,
36 S Ed.
Truac, C. W., Jr., *Fr. s*
192 Nassau St.
TUCKERMAN, B., *Lecturer*,
Nassau Club
Turner, A. H., *So. s* Hill
Turner, H. G., *Fr. s* 47 Univ. Pl.
Turner, H. W., *Fr. s*
31 Nassau St.
Turner, W. F., *Sr. s* 31 Nassau St
Tuttle, F. H., *g* 168 Nassau St.

Ullmann, F., Jr., *Sr. a* 5 B
UNDERHILL, A. L., *Instructor*,
35 Bank St.
Updegraff, D. B., *g* 30 A S
Updegraff, S., *Sr. a* 8 S E B
UPSON, W. L., *Instructor*,
43 '79 H
Uptegrove, G. M., *Sr. a* 5 E M W
Urban, P. L., *Sr. a* 38 L

Valentine, H. D., *Jr. a* 12 N W
Vanderbilt, O. DeG., Jr., *Sr. s*
8 E M W
Vanderhoef, G. W., Jr., *So. s*
3 L P
Vandervelde, C., *g* 208 H S
van der Voort, J. N., *So. s* 41 B
Van Deusen, C. C., Jr., *Jr. a*
Dodge Hall
Vandewater, W. C., *Jr. a*
45 Van Deventer Av.
Van Doren, W. V., *g* 30 S Ed.
Van Dyke, A. D., *Sp.*
108 Mercer St.
VAN DYKE, H., *Professor*,
59 Bayard Lane
van Dyke, H. J., 3d, *So. a* Hill
VAN DYKE, H. N., *Registrar*,
University Offices
VAN DYKE, P., *Professor*,
89 Library Pl.
VanHoesen, H. B., *g* 11 Park Pl.
VAN HOOK, L., *Preceptor*,
11 Alexander St.
VAN INGEN, G., *Assistant*,
8 Maple St.
VAN RENSSELAER, A., *Trustee*,
Philadelphia, Pa.
Van Sant, R. M., *Jr. a* 6 W M W

Van Sickle, W. D., *So. a*
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